

AD653626

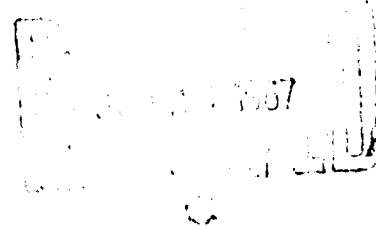
ICEFIELD RANGES  
CLIMATOLOGY PROGRAM:  
1965 DATA PRESENTATION  
AND PROGRAMMING ANALYSIS

BY

MELVIN G. MARCUS, FRANKLIN RENS,  
AND BEA E. TAYLOR

(U)

NLABS. No. 67-84-ES



April 1966

**ARCTIC INSTITUTE OF  
NORTH AMERICA**

3458 REDPATH STREET, MONTREAL 25, QUEBEC

46 EAST 70TH STREET, NEW YORK, N.Y. 10021

1619 NEW HAMPSHIRE AVENUE, N.W.  
WASHINGTON, D. C. 20009

ARCHIVE COPY

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED.

The findings in this report are not to be construed as an official Department of the Army position unless so designated by other authorized documents.

Citation of trade names in this report does not constitute an official indorsement or approval of the use of such items.

Destroy this report when no longer needed. Do not return it to the originator.

~~CONFIDENTIAL~~ THIS DOCUMENT IS UNCLASSIFIED

N L R 12 A 17 14 3 1

ICEFIELD RANGES CLIMATOLOGY PROGRAM:  
1965 DATA PRESENTATION AND PROGRAMMING ANALYSIS

by

MELVIN G. MARCUS, FRANK J. RENS,

AND BEA E. TAYLOR

RESEARCH PAPER 33

Arctic Institute of North America  
1619 New Hampshire Avenue, N.W.  
Washington, D. C.

April, 1966

Prepared  
for

EARTH SCIENCES DIVISION  
UNITED STATES ARMY NATICK LABORATORIES  
NATICK, MASSACHUSETTS

under the terms of  
ARMY CONTRACT No. DA19-129-AMC-660(N)  
PROJECT No. 1V025001A.29

## TABLE OF CONTENTS

Introduction . . . . .	1
Location Map (Figure 1) . . . . .	2
Station Locations . . . . .	4
Program for Reduction, Averaging, and Printing of Weather Observations . . . . .	4
Data Flow in the Field . . . . .	7
The Machine Program . . . . .	10
Acknowledgments . . . . .	12
Bibliography . . . . .	13
Tables (See Table of Tables) . . . . .	.iii

# TABLE OF TABLES

TABLE A - Manned Weather Stations . . . . .	5
TABLE B - Automatic Weather Stations . . . . .	6
TABLE C - Punch Card Weather Code . . . . .	9
TABLE I - M.A.D. Computer Program . . . . .	14
TABLE II - BASE CAMP, LAKE KLUANE	
A - Air Temperature . . . . .	20
B - Precipitation . . . . .	24
C - Wind Direction . . . . .	32
D - Wind Velocity . . . . .	36
E - Pressure . . . . .	40
F - Relative Humidity . . . . .	44
G - Cloud Cover . . . . .	48
TABLE III - DIVIDE STATION	
A - Air Temperature . . . . .	52
B - Pressure . . . . .	55
C - Precipitation . . . . .	58
D - Wind Direction . . . . .	64
E - Wind Velocity . . . . .	67
F - Relative Humidity . . . . .	70
G - Cloud Cover . . . . .	73
TABLE IV - KASKAWULSH STATION	
A - Air Temperature . . . . .	76
B - Pressure . . . . .	79
C - Precipitation . . . . .	82
D - Wind Direction . . . . .	88
E - Wind Velocity . . . . .	91
F - Relative Humidity . . . . .	94
G - Cloud Cover . . . . .	97
H - Ice Station Air Temperature . . . . .	100
I - Ice Station Relative Humidity . . . . .	101
J - Knoll Station Air Temperature . . . . .	102
K - Knoll Station Relative Humidity . . . . .	103
TABLE V - SEWARD STATION	
A - Air Temperature . . . . .	104
B - Pressure . . . . .	105
C - Precipitation . . . . .	106
D - Wind Direction . . . . .	108
E - Wind Velocity . . . . .	109
F - Relative Humidity . . . . .	110
G - Cloud Cover . . . . .	111

ICEFIELD RANGES CLIMATOLOGY PROGRAM:  
1965 DATA PRESENTATION AND PROGRAMMING ANALYSIS

Introduction

Since 1961, environmental studies of the St. Elias Mountains, Yukon and Alaska, have been undertaken by the Icefield Ranges Research Project under joint sponsorship of the Arctic Institute of North America and the American Geographical Society. Research in interrelated earth sciences has been carried out during five summer field seasons and has been described by Wood (1963) and Ragle (1963, 1965). An integral phase of the larger research program has been concentrated in climatological and meteorological research. This program has been described for 1961-1964 by Havens and Saarela (1964) and Marcus (1965a, 1965b). The climatology program was continued and expanded in 1965. Six operational phases were included within the context of the program. They were:

(1) The operation of meteorological stations across the trans-mountain profile between the Pacific littoral and the continental interior. Four stations -- Lake Kluane Base Camp, Kaskawulsh, Divide, and Seward (See Fig. 1) -- were operated on a 24-hour basis. Observations of temperature, precipitation, relative humidity, wind direction and velocity, sky condition, and other weather variables were taken every three hours from 0300 YST (Yukon Standard Time) to 2400 YST.<sup>1</sup> Additionally, automatic stations were maintained at the Kaskawulsh Knoll and Kaskawulsh Ice locations.

---

<sup>1</sup>It should be noted that although Pacific Daylight Time was in effect throughout the Yukon during the summer of 1965, the Icefield Ranges Research Project and its associated climatological program operated under Yukon Standard Time in order to insure continuity with earlier Project records.

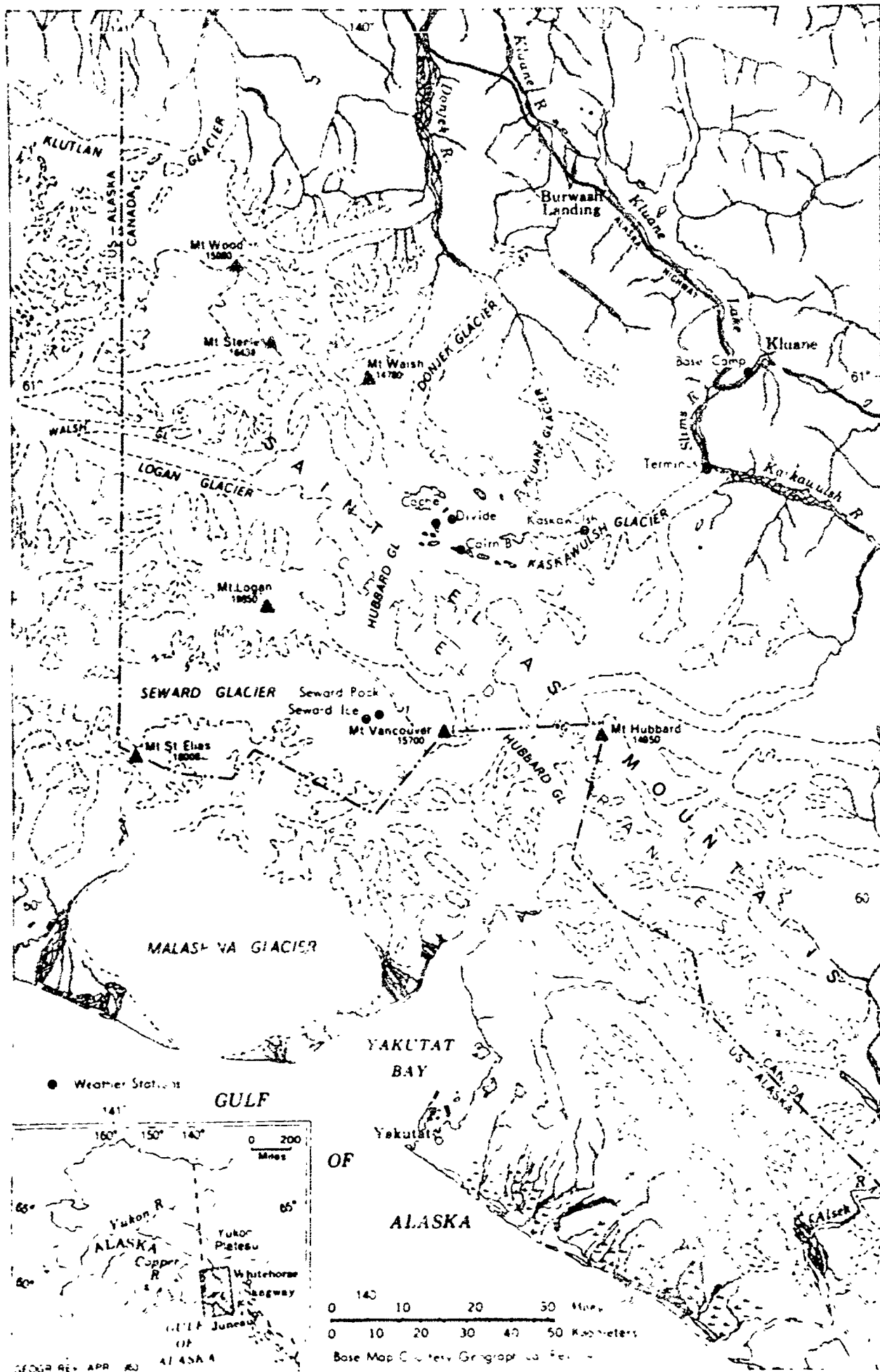


FIG. 1—Location map, showing area of the Icefield Ranges Research Project operations

(2) The recording and storage of weather data for use by Project personnel working in related fields of geology, geophysics, glaciology, and ecology.

(3) The continuation of a cooperative program with the Meteorological Service, Department of Transport, whereby Divide, Seward, and Lake Kluane observations were coded and relayed to the Whitehorse Weather Station for use in local and airways forecasting.

(4) Analysis of regional and trans-mountain climatology and its relationship to glacier hydrology. In addition to Project-operated stations, three government stations (Yakutat in Alaska and Haines Junction and Whitehorse in the Yukon) were utilized in this study. The results are reported elsewhere (Marcus, 1965c; Taylor, 1966).

(5) Energy flux studies across a snow interface located one-half mile northeast of Seward Station. This research is still in progress and will be reported in 1967.

(6) Pilot balloon observations of upper air circulation over Seward, Divide, and Kaskawulsh Stations.

The purpose of this report is to present data gathered during the 1965 field season. Observations of a special kind, such as micrometeorological records, are not included but appear in the context of the special studies previously cited. No effort is made to describe observational procedures; these have been described in AINA Research Paper 31-A (Marcus, 1965a). Where breaks occur in the 1965 observational record, they are due to equipment malfunction or the necessary absence of all personnel from a station because of other Project commitments.

In addition to data presentation, a computer-related program whereby field data were reduced and prepared for publication is described and evaluated.



### Station Locations

The geographical grid position, elevation, and period of record for manned and automatic stations are given in Tables A and B respectively. For comparative purposes the tables also include information regarding earlier station records and changes in location. It should be noted that the nomenclature for Divide Station has been changed for this report. Henceforth that station, which has been subject to some position change in each year of IRRP activity, will be identified by the year of operation; i.e., Divide 1963, Divide 1964, etc.

### A Program for Reduction, Averaging, and Printing of Weather Observations

One of the major problems encountered in climatological research involves the handling, storage, and reduction of the tremendous quantities of field-generated data. With the exception of government weather agencies, observational data are infrequently published or available to researchers-at-large. The reasons for this are logical: the potential audience is too small to warrant the expenditure necessary to produce a comprehensive data report. This is true even if the data is presented in crude mimeographed form since most of the investment is included in initial reduction and typing costs. There can be no argument that fifty pages of closely-spaced numerical data builds impressive stenographic fees. On the other hand, field data must inevitably be reduced to some workable format if the investigator is to make some sense of it. It is desirable that these materials, once they have been organized, should be available to a larger audience. Regretably, because of production effort, the data usually remains in the Principal Investigator's files.

This issue has been forced on the Icefield Ranges Research Project

TABLE A

## MANNED WEATHER STATIONS, ST. ELIAS MOUNTAINS, 1963 - 1965

Station	Latitude	Longitude	Elevation in feet	Period of Record	Type of Surface
BASE CAMP (Lake Kluane)	61° 02' N	138° 25' W	2,580	1963: 5 June - 24 Aug.)	Gravel. 150 ft. N.W.
				1964: 1 June - 26 Aug.)	of center of abandon- ed Kluane Air Strip.
				1965: 14 May - 9 Aug.	Gravel. Moved 1000 ft. to 150 ft. N.W. of S.W. end of air strip.
DIVIDE Glacier Central Divide 1963 Divide 1964 Divide 1965	60° 45' N 60° 46' N 60° 47' N 60° 45' N	139° 36' W 139° 40' W 139° 40' W 139° 40' W	8,485 8,659 8,650 8,760	1963: 1 July - 22 Aug.	Snow.
				1963: 19 June - 23 Aug.	Snow.
				1964: 10 June - 17 Aug.	Snow.
				1965: 4 June - 8 Aug.	Snow.
KASIKAWULSH	60° 44' N	139° 08' W	c. 5,800	1964: 4 July - 22 Aug.	Thin moraine over- lying ice.
				1965: 28 May - 25 July	
SEWARD	60° 20' N	139° 55' W	c. 6,100	1964: 18 June - 14 Aug.	Rock ridge. c. 50 ft. from nearest snow.
				1965: 7 July - 25 July	

TABLE B

## AUTOMATIC WEATHER STATIONS, ST. ELIAS MOUNTAINS, 1963 - 1965

Station	Latitude	Longitude	Elevation in feet	Period of Record	Type of Surface
CACHE-DIVIDE	60° 46' N	139° 42' W	8,774	1964: 13 June - 16 Aug.	Small rock nunatak. 10 ft. to snow. Occasional light snow cover.
CAIRN B-DIVIDE	60° 46' N	139° 38' W	8,994	1964: 13 July - 15 Aug. 1965: 7 June - 11 Aug.	Snow Ridge east of nunatak summit.
KASKAWULSH ICE	60° 43' N	139° 08' W	c. 5,800	1965: 7 July - 26 July	Glacier surface. Vari- able snow to ice seasonally. On Central Arm, Kaskawulsh Glacier, c. 1 mile south of Kaskawulsh Station.
KASKAWULSH KNOLL	60° 44' N	139° 09' W	c. 6,000	1965: 25 June - 26 July	Variable snow to grass seasonally. Edge of relatively flat niva- tion hollow on ridge; 1/2 mile west of Kaskawulsh Station.
SEWARD ICE	60° 20' N	139° 56' W	c. 5,850	1964: 6 July - 15 Aug.	Snow. c. 1 mile west of nunatak.
TERMINUS	60° 49' N	138° 38' W	c. 2,709	1963: 15 July - 23 Aug. 1964: 1 June - 18 Aug.	Gravel. On moraine c. 100 ft. from Glims R. flood plain; 2 ft. higher than flood plain surface.

because of the large number of participants who require the whole or a part of the weather data. In 1964, many man-months of labor went into the reduction and production of the Data Presentation. Yet, it was merely a listing of observations with appropriate hourly, daily, and monthly means. The inefficiency and expense involved in the use of desk calculators and typists was never more apparent. It was therefore decided that the 1965 data should be handled in as automatic a manner as possible. This was accomplished -- after considerable trial and error -- and it is believed that with appropriate corrections the present data-handling program will provide a reasonable and inexpensive system for future use.

#### Data Flow in the Field

In 1965, the normal observational and recording procedure used on IRRP was as follows:

1. Recording of weather observations in a field notebook.
2. Translation of the observations to a weather code and entry of this code onto a column-numbered code sheet. The IRRP weather code relied strongly on the Canadian Meteorological Branch's "Manual of Standard Procedures and Practices for Weather Observing and Reporting" (MANOBS), since it was already necessary to use the MANOBS for reports to the Whitehorse Weather Station. Table C gives the column code used on the Project.
3. Delivery of code sheets to Base Camp whenever the Project aircraft visited an outlying station.
4. Key-punching of cards at Base Camp after delivery. An electrically operated IBM 010 Portable Punch was used for this purpose.
5. Verification of punched cards.
6. Storage of cards until the end of the field season.

The operation did not run as smoothly as anticipated; several types of errors were committed. Principle among these were improper entries on the

code sheet, and despite the verification process, key-punching mistakes. Most of these were human errors and can be avoided. The code sheets, for example, should always be filled in by the same observer to avoid well-meaning but erroneous efforts by a substitute observer. Also, not only should column numbers be indicated on the code sheet, but also a verbal statement of the columns' contents should be included.

The large number of key-punching errors committed are not surprising in retrospect. The portable punch is a crude instrument, column positions are easily misjudged, and its operation is easily impaired by the ever-present loess at Lake Kluane. Another factor leading to punching errors was the fact that code sheets tended to arrive at Base Camp in large batches after periods of bad weather. Since the punch could be operated only at a relatively slow pace, it became necessary to press every willing hand to the task in order to bring the cards up-to-date. Lack of familiarity and fatigue undoubtedly caused errors; there is no question that this phase of the operation was responsible for the majority of mistakes.

It is suggested that most of these problems can be avoided through a few judicious changes in the system -- changes which will require less data handling by the field personnel and release them for other duties. The procedure is as follows:

1. Recording of field observations in the field notebook.
2. Translation of observations to the weather code and entry on the code sheet by one observer only at each station. Other observers would verify the code. The sheets should be filled out in duplicate.
3. Delivery of code sheets to Base Camp.
4. Storage of one code sheet copy at Base Camp.
5. Mail delivery of other copy to computer facility used by the Project where a professional key punch operator punches and verifies the cards.

TABLE C  
PUNCH CARD WEATHER CODE  
ICEFLELL RANGES RESEARCH PROJECT

Col.	S.C.	Data	Col.	S.C.	Data
1-2	ii	Station Identification	41	C <sub>1</sub>	Clouds of types Sc, St, Cu, Cb (most prevalent at lower level)
3	y	Year by last digit			
4-5	Mo	Month (01-12)	42	h <sub>1</sub>	Height above ground of cloud base (lower level)
6-7	D	Date (01-31)	43	C <sub>m</sub>	Clouds of types Ac, As (most prevalent at middle layer)
8-9	TO	Time of Observation (01-24)	44	h <sub>m</sub>	Height above ground of cloud base see C <sub>m</sub>
10	N	Fraction of Celestial Dome covered by cloud (see code)	45	C <sub>h</sub>	Clouds of types Ci, Cc, Cs
11-12	dd	True Direction in tenths of degrees of wind (01-36), (0, 0 if calm)	46	h <sub>h</sub>	Height above ground of C <sub>h</sub>
13-14	ff	Wind Speed in MPH (0, 0 if calm)	47	N <sub>g</sub>	Fraction dome covered by cloud C <sub>h</sub>
15-16	VV	Horizontal visibility (see code)	48-49	DC <sub>1</sub>	Direction cloud movement tens of degrees (00-36)
17-20	SPPP	Station pressure in tenths of millibars	50-51	DC <sub>m</sub>	Direction cloud movement tens of degrees (00-36)
21-24	SLPP	Sea level pressure in tenths of millibars	52-53	DC <sub>h</sub>	Direction cloud movement tens of degrees (00-36)
25-28	TTTT	Air temperature to nearest tenth degree Fahrenheit (Col.25 for minus punch if necessary)	54-55	SS	Duration sunlight 1st hr. in tenths
			56-57	S <sub>2</sub> S <sub>2</sub>	Duration sunlight 2nd hr. in tenths
29-31	T <sub>d</sub> T <sub>d</sub> T <sub>d</sub>	Dew point temperature to nearest whole degree Fahrenheit	58-59	S <sub>3</sub> S <sub>3</sub>	Duration sunlight 3rd hr. in tenths
32-34	HHH	Relative humidity in per cent (000-100)	60	a	Barograph trace past 3 hrs. See code
35-36	RR	Amount liquid precip. Past 3 hrs. (hundredths of inches)	61-62	pp	Amount net pressure change past 3 hrs. in millibars (tenths)
37-39	S S S a a a	Snow accumulation in millimeters	63-65	AAA	Snow ablation in millimeters
40	N <sub>h</sub>	Fraction celestial dome covered by type cloud C <sub>1</sub> and/or C <sub>m</sub>	66-70		Height C <sub>1</sub> cloud
			71-75		Height C <sub>h</sub> cloud
			76-77		Max. temp. at 2400
			78-79		Min. temp. at 2400

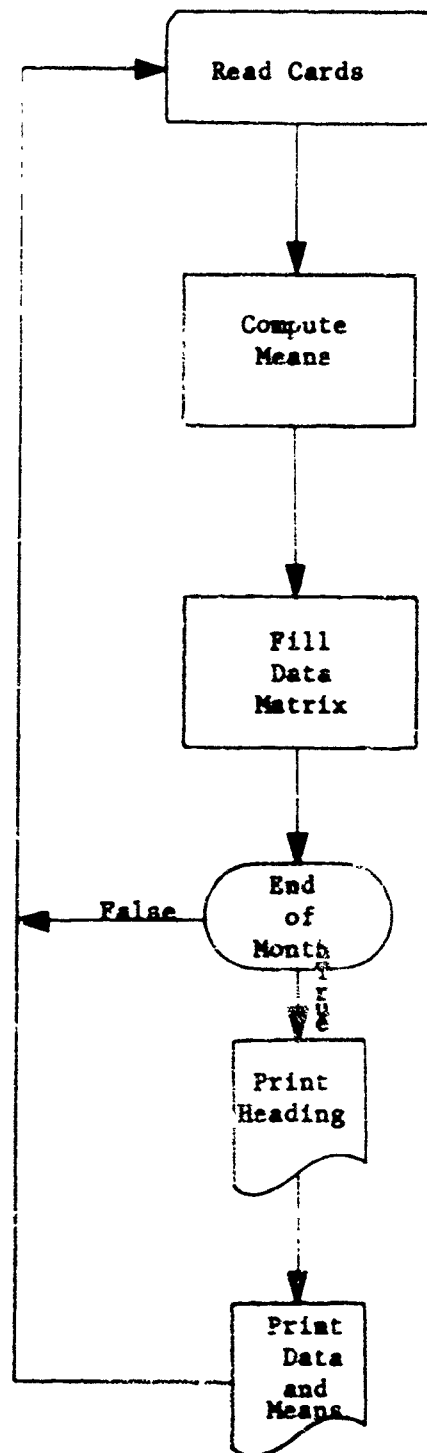
At the end of the season, all cards will be punched and ready for computer processing. In fact, it would be possible to run the computer program for data as it is received at the computer center. Data print-outs would be returned to the field parties within a few days.

#### The Machine Program

Most data presented in this report were reduced, averaged, and printed by use of a computer program; printing was done directly on multilith masters. Only table and page numbers had to be added. Precipitation and cloud cover were not included in the program, but these elements could easily be added. Once data errors described in the previous section had been corrected, the entire summer's weather record for six stations was processed in less than two minutes on The University of Michigan IBM 7090 computer.

As described earlier, each punched IBM card contains a record of weather information for a single observation at a given station. These cards are sorted by station and month prior to analysis by the computer. The computer program reads a month's record for a single station, storing the information contained on the cards in a 3-dimensional matrix. The rows correspond to the time of day, the columns to the day of the month, and the layers to the type of observation, i.e., temperature, humidity, etc. The original matrix for each layer is printed along with a heading containing information about the station and is reproduced on offset masters. The rows and columns are summed and divided by the number of observations in each, producing the means shown in the tables. A generalized flow chart for the program is given in Figure 2.

The program was written in The University of Michigan MAD (Michigan Algorithmic Decoder) language. No attempt was made to convert this program to a "more common" language such as FORTRAN II, since many logical operations not available in FORTRAN are used. The need for these advanced operations





resulted from a high degree of error checking and punch card correction by the program.

The user of the program at another computer installation should translate the program into a language compatible with his own system (Algol for example), or obtain a copy of the University of Michigan System which is available through the IBM users organization (Share).

To run the program, simply sort the observations by station and month, and place behind the program. No control cards are required. A copy of the MAD program is provided in Table I.

#### Acknowledgments

Seven investigators constituted the basic climatology team: Melvin G. Marcus, The University of Michigan, who directed the 1965 program; Duncan Finlayson and Bea E. Taylor, McGill University; William J. Arnold, Karen J. Ewing, and John B. Griffin, The University of Michigan, and Raymond Lougeay, Rutgers University. Four college teachers worked full-time on the stations at various times during the summer under the sponsorship of a National Science Foundation Research Participation grant: Robert A. Farrell, Mansfield State College, Pennsylvania; Donald W. Kolberg, Valparaiso University, Indiana; Richard W. Machowski, Northern Michigan University; and William B. Sterling, Bloomsburg State College, Pennsylvania. Other members of the Project were generous with their time and assistance, particularly Phillip Muehrcke, The University of Michigan, and Christopher Warntz, St. Paul School New Hampshire.

The climatology program was particularly dependent on the excellent logistics and support program provided by Ralph A. Lenton and Philip P. Upton. Walter A. Wood, Project Director, and Richard H. Ragle, Field Director, were particularly helpful in the organization of the program and provided valued counsel.

## BIBLIOGRAPHY

- HAVENS, JAMES M. and SAARELA, DAVID E. (1964). "Exploration Meteorology in the St. Elias Mountains, Yukon, Canada," Weather, vol. 19, pp. 342-52.
- MARCUS, MELVIN G. (1965a). "Icefield Ranges Climatology Program, St. Elias Mountains, 1964 - Part I: Data Presentation," Research Paper No. 31-A, Washington, D.C.: Arctic Institute of North America, 1965, 109 pages.
- \_\_\_\_\_ (1965b). "Summer Temperature Relationships along a Transect in the St. Elias Mountains, Alaska and Yukon Territory," Man and the Earth, Series in Earth Sciences No. 3, University of Colorado Studies, Boulder: University of Colorado Press, 1965, pp. 15-30.
- \_\_\_\_\_ (1965c). "A Hydrological Traverse of Glaciers in the St. Elias Mountains, Alaska-Yukon Territory," Paper presented to the VII INQUA Congress of the International Association for Quaternary Research, Boulder Colorado, September 1, 1965, 11 pages (mimeographed).
- RAGLE, RICHARD H. (1963). "Icefield Research Project," Ice, No. 13, December, 1963, p. 2.
- \_\_\_\_\_ (1965). "Icefield Ranges, Y.T.," Ice, No. 17, April, 1965, p. 3.
- TAYLOR, BEA E. (1966). Presently untitled master's thesis in the Department of Meteorology, McGill University (forthcoming June, 1966).
- WOOD, WALTER A. (1963). "The Icefield Ranges Research Project," The Geographical Review, vol. 53, pp. 163-84.

TABLE I

MICHIGAN ALGORITHMIC DECODER (MAD) PROGRAM FOR  
REDUCTION, AVERAGING, AND PRINTING OF WEATHER DATA

\$COMPILE MAD,PRINT OBJECT,PUNCH OBJECT

```

R'N
D'N (IT,IWV,IP,IRH,NIT,NIWV,NIP,NIRH)(31),(JT,JWV,JP,JRH,NJT,
1NJWV,NJP,NJRH)(8),(MAX,MIN)(31), (TST
2FMP,NTFMP,TSRH,NRH,TPRFS,NPRES,TWINV,NWINV)(8)
DIMENSION WD(248,D1),WV(248,D1), PR(248,D1),RH(248,D1),TE(
1248,D1)
DIMENSION DATE(1)
SETEOF.(SAVE)
V'S ENDF=1B
V'S DATLST=$ MAY, 1965$, $ JUNE, 1965$, $ JULY, 1965$, $AUGU
1ST, 1965$
V'S D1=2,1,8
V'S BLANK=606060606060K
V'S CLDS(1)=$ .00$, $ .10$, $ .25$, $ .40$, $ .50$, $ .60$, $ .75$,
1$ .90$, $1.00$
V'S CLDS=606072606060K
V'S NWD=0
V'S TIL=0,0,0,1,0,0,2,0,0,3,0,0,4,0,0,5,0,0,6,0,0,7,0,0,8
1IR STA,MO,D,T,ST,M,SUB,TIL,TE,WD,WV,PR,RH,NTFMP,NIT,NJT,NWIN
1V,NIWV,NJWV,NPRES,NIP,NJP,NRH,NIRH,NJRH,BCDRN,NWD,I,CLDS
1IR TYPE,DATE
R'N ENDF
30 ZERO.(TSTEMP(1)...TSTEMP(8),NTFMP(1)...NTFMP(8),TSRH(1)...TSR
1H(8),NRH(1)...NRH(8),TPRFS(1)...TPRFS(8),NPRES(1)...NPRES(8),
2TWINV(1)...TWINV(8),NWINV(1)...NWINV(8))
ZERO.(IT(1)...IT(31),JT(1)...JT(8),IWV(1)...IWV(31),JWV(1)...
1JWV(8),IP(1)...IP(31),JP(1)...JP(8),IRH(1)...IRH(31),JRH(1).
1..JRH(8))
SPRAY.(BLANK,WD(1,1)...WD(31,8),WV(1,1)...WV(31,8),PR(1,1)...
1PR(31,8),RH(1,1)...RH(31,8),TE(1,1)...TE(31,8))
ZERO.(NJT(1)...NJT(8),NJWV(1)...NJWV(8),NJP(1)...NJP(8),NJRH(
11)...NJRH(8),NIT(1)...NIT(31),NIWV(1)...NIWV(31),NIP(1)...NIP
2(31),NIRH(1)...NIRH(31))
ZERO.(MAX(1)...MAX(31),MIN(1)...MIN(31))
LIT $I2,S1,3I2*$,ST,M,D
1READ LIT $I2,S1,3I2*$,STA,MO,D,T
WIR STA,NE,ST
RIT $$1*$
TIO EOS
OIR MO,G,8,OR,D,G,31,OR,T,G,24
RIT $$1*$
TIO RREAD

```

TABLE I

## MAD PROGRAM (con't)

```

O'R MO.NE.M
R'T $S1*$
T'O EOS
E'L
SUB=TIL(T)
R'T INPUT,TE,WD,WV,PR,RH,MAX,MIN
V'S INPUT=$T26,C3,T11,2C2,S3,C3,T32,C3,T76,2F2*$
W'R TE.NE.BLANK
TE(D,SUB)=TE
FTE=BCDBN.(TE)/10.
TTEMP(SUB)=TTEMP(SUB)+FTE
NTEMP(SUB)=NTEMP(SUB)+1
IT(D)=IT(D)+FTE
NIT(D)=NIT(D)+1
JT(SUB)=JT(SUB)+FTE
NJT(SUB)=NJT(SUB)+1
O'E
TE(D,SUB)=RM
E'L
W'R WD.NE.BLANK
W'R WD.E.$GOS
WD(D,SUB)=$ C$
O'E
WD(D,SUB)=WD
E'L
O'E
WD(D,SUB)=RM
E'L
W'R WV.NE.BLANK
WV(D,SUB)=WV
FWV=BCDBN.(WV)
TWINV(SUB)=TWINV(SUB)+FWV
NWINV(SUB)=NWINV(SUB)+1
IWV(D)=IWV(D)+FWV
NIWV(D)=NIWV(D)+1
JWV(SUB)=JWV(SUB)+FWV
NJWV(SUB)=NJWV(SUB)+1
O'E
WV(D,SUB)=RM
E'L
W'R PR.NE.BLANK
PR(D,SUB)=PR
FPR=BCDBN.(PR)
T PRES(SUB)=T PRES(SUB)+FPR
NPRES(SUB)=NPRES(SUB)+1
IP(D)=IP(D)+FPR
NIP(D)=NIP(D)+1
JP(SUB)=JP(SUB)+FPR
NJP(SUB)=NJP(SUB)+1
O'E

```

TABLE I  
MAD PROGRAM (con't)

```

PR(D,SUB)=RM
E'L
W'R RH.NE.BLANK
RH(D,SUB)=RH
FRH=JGDBN.(RH)
TSRH(SUB)=TSRH(SUB)+FRH
NRH(SUB)=NRH(SUB)+1
IRH(D)=IRH(D)+FRH
NIRH(D)=NIRH(D)+1
JRH(SUB)=JRH(SUB)+FRH
NJRH(SUB)=NJRH(SUB)+1
O'E
RH(D,SUB)=RM
E'L
W'R MAX.G.0.
MAX(D)=MAX
MIN(D)=MIN
E'L
T'O RREAD
ENDF=0B
T'H COL, FOR I=1,1,I.G.8
JT(I)=JT(I)/NJT(I)
JWV(I)=JWV(I)/NJWV(I)
JP(I)=JP(I)/NJP(I)
JRH(I)=JRH(I)/NJRH(I)
COL CONTINUE
T'H ROW, FOR I=1,1,I.G.31
W'R NIT(I).E.8
IT(I)=IT(I)/8.
O'E
IT(I)=0.
E'L
W'R NIWV(I).E.8
IWV(I)=IWV(I)/8.
O'E
IWV(I)=0.
E'L
W'R NIP(I).E.8
IP(I)=IP(I)/8.
O'E
IP(I)=0.
E'L
W'R NIRH(I).E.8
IRH(I)=IRH(I)/8.
O'E
IRH(I)=0.
ROW E'L
MO=M
DATE=DATLST((MO-5)*2)
DATE(1)=DATLST((MO-5)*2+1)

```

TABLE I

## MAD PROGRAM (con't)

```

T'H PRIN, FOR TYPE=1,1,TYPE.G.5
HEAD.(ST,TYPE,DATE)
W'R TYPE.E.1
T'H DAT11, FOR D=1,1,D.G.31
DAT11 PUNCH FORMAT TOUT,D,(I=1,1,1.G.8,TE(D,1),TE(D,1).LS.12),
1IT(D),MAX(D),MIN(D)
V'S TOUT=$S1,I2,T7.8(C2,1H,C1,S1),S7,WF6.1,2WF6.1*$
PUNCH FORMAT TOUT1,JT(1)...JT(8)
V'S TOUT1=$//T7.8(F4.1,S1)*$
O'R TYPE.E.2
T'H DAT21, FOR D=1,1,D.G.31
DAT21 PUNCH FORMAT AOUT,D,WD(D,1)...WD(D,8)
V'S AOUT=$S1,I2,T9.8(C2,S5),WF6.1*$
O'R TYPE.E.3
T'H DAT31, FOR D=1,1,D.G.31
DAT31 PUNCH FORMAT AOUT,D,WV(D,1)...WV(D,8),IWV(D)
PUNCH FORMAT AOUT1,JWV(1)...JWV(8)
V'S AOUT1=$//T8.8(F4.1,S3)*$
O'R TYPE.E.4
T'H DAT41, FOR D=1,1,D.G.31
DAT41 PUNCH FORMAT BOUT,D,PR(D,1)...PR(D,8),IP(D)
PUNCH FORMAT YOUT1,JP(1)...JP(8)
O'R TYPE.E.5.AND.(STA.NE.5.OR.STA.NE.6)
T'H DAT51, FOR D=1,1,D.G.31
DAT51 PUNCH FORMAT BOUT,D,RH(D,1)...RH(D,8),IRH(D)
V'S BOUT=$S1,I2,T8.8(C3,S4),WF6.1*$
PUNCH FORMAT YOUT1,JRH(1)...JRH(8)
V'S YOUT1=$//T8.8(F4,S3)*$
E'L
PRIN PUNCH FORMAT $2H**,T73,8H*****$
W'R ENDF,TIO GO
SYSTEM.(0)
E'M

```

\$COMPILE MAD,PRINT OBJECT  
\$PUNCH OBJECT

HEAR.

```

R'N
EXTERNAL FUNCTION(N,TYPE,DATE)
N'R
E'O HEAD.
W'R N.E.4.OR.N.E.2
MB=800
O'R N.E.3
MB=700
O'R N.E.1
MB=900

```

TABLE I

## MAD PROGRAM (con't)

```

E'L
W'R TYPE.E.1
PUNCH FORMAT $/////22XH*SHELTER AIR TEMPERATURE (DEGREES F.)*
1*$
O'R TYPE.E.2
PUNCH FORMAT $/////20XH*WIND DIRECTION (36-PT. COMPASS), 200
1CM.**$
O'R TYPE.E.3
PUNCH FORMAT $/////25XH*WIND VELOCITY (MPH), 200 CM.**$
O'R TYPE.E.4
PUNCH FORMAT $/////30XH*PRESSURE (*13,H** MB.):**$,MB
O'R TYPE.E.5
PUNCH FORMAT $/////25XH*RELATIVE HUMIDITY (PERCENTAGE)**$
E'L
W'R N.E.1
PUNCH FORMAT $28XH*BASE CAMP (LAKE KLUANE)**$
O'R N.E.2
PUNCH FORMAT $22XH*KASKAWULSH STATION, ST. ELIAS MOUNTAINS**$
O'R N.E.3
PUNCH FORMAT $24XH*DIVIDE STATION, ST. ELIAS MOUNTAINS**$
O'R N.E.4
PUNCH FORMAT $24XH*SEWARD STATION, ST. ELIAS MOUNTAINS**$
O'R N.E.5
PUNCH FORMAT $18XH*KASKAWULSH ICE STATION, ST. ELIAS MOUNTAIN
1S**$
O'R N.E.6
PUNCH FORMAT $16XH*KASKAWULSH KNOLL STATION, ST. ELIAS MOUNTA
1INS**$
E'L
PUNCH FORMAT $28XH*YUKON TERRITORY, CANADA*//*$
R
R
V'S LAT=$ 61 02' NS,$ 60 44' NS,$ 60 45' NS,$ 60 20' NS,
1$ 60 43' NS,$ 60 44' NS
V'S LON=$138 25' WS,$139 08' WS,$139 40' WS,$139 55' WS,
1$139 08' WS,$139 09' WS
V'S ELE(1)=2530,5800,8760,6150,5800,6000,8994
SETLAT=(TYPE-1)*2
PUNCH FORMAT $H*LAT *C6,G4,T26,H*ELEVATION *I5,T52,H*DAT
1E *2C6*$,LAT(SETLAT),LAT(SETLAT+1),ELE(N),DATE,DATE(1)
PUNCH FORMAT $H*LONG *C6,C4//*$,LON(SETLAT),LON(SETLAT+1)
W'R TYPE.E.1
PUNCH FORMAT $22XH*YUKON STANDARD TIME*//H*DATE 03*3X2H063
1X2H093X2H123X2H153X2H183X2H213X2H24T57,H*MEAN MAX MIN**$
O'E
PUNCH FORMAT $H*DATE*T25,H*YUKON STANDARD TIME*/T9,2H035X2H06
15X2H095X2H125X2H155X2H185X2H215X2H246X4HMEAN*$
E'L
F'N
E'N

```

1965 METEOROLOGICAL OBSERVATIONS



TABLE II-A

SHELTER AIR TEMPERATURE (DEGREES F.)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 61 02' N  
 LONG 138 25' W

ELEVATION 2580

DATE MAY, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN	
1	.	.	.	.	.	.	.	.				
2	.	.	.	.	.	.	.	.				
3	.	.	.	.	.	.	.	.				
4	.	.	.	.	.	.	.	.				
5	.	.	.	.	.	.	.	.				
6	.	.	.	.	.	.	.	.				
7	.	.	.	.	.	.	.	.				
8	.	.	.	.	.	.	.	.				
9	.	.	.	.	.	.	.	.				
10	.	.	.	.	.	.	.	.				
11	.	.	.	.	.	.	.	.				
12	.	.	.	.	.	.	.	.				
13	.	.	.	.	.	.	.	.				
14	26.5	26.8	28.0	32.8	36.8	38.2	30.3	23.3	30.3	39.0	23.0	
15	19.0	23.7	32.5	37.2	37.2	40.0	30.8	28.8	31.1	40.0	19.0	
16	28.5	29.5	34.6	40.3	43.3	42.0	35.5	29.9	35.4	45.0	28.0	
17	23.2	29.0	33.8	44.5	47.5	43.4	40.3	28.0	36.2	47.0	20.0	
18	27.5	33.6	38.9	46.0	51.4	47.9	41.9	32.4	39.9	52.0	22.0	
19	26.8	36.0	40.0	50.0	53.0	49.8	44.5	32.9	41.6	58.0	24.0	
20	25.9	35.0	43.5	51.0	56.7	51.0	43.5	34.5	42.6	59.0	25.0	
21	30.0	38.4	42.9	46.9	49.5	47.1	41.9	34.5	41.4	53.0	30.0	
22	34.9	38.4	43.4	48.2	53.5	44.7	40.9	31.2	41.9	54.0	32.0	
23	32.0	38.4	42.2	51.2	52.1	45.1	42.8	36.0	42.5	53.0	30.0	
24	33.8	38.2	44.0	51.1	54.2	49.8	43.2	39.2	44.1	55.0	30.0	
25	40.0	43.2	47.2	56.0	55.0	49.0	42.9	39.9	46.6	56.0	37.0	
26	36.1	39.1	43.2	53.0	53.6	49.6	48.0	35.8	44.8	57.0	35.0	
27	32.7	40.6	43.4	53.4	55.7	54.9	48.9	38.7	46.0	58.0	33.0	
28	37.4	45.8	49.0	55.8	59.6	52.3	50.0	44.9	49.3	62.0	37.0	
29	41.5	43.8	50.0	55.1	61.9	54.9	48.9	37.5	49.2	62.0	40.0	
30	35.7	44.4	48.0	54.0	57.0	52.4	47.5	41.5	47.6	57.0	34.0	
31	40.1	42.0	45.0	50.0	57.9	49.0	41.2	38.6	45.5	58.0	36.0	
	31.8	37.0	41.7	48.7	52.0	47.8	42.4	34.9		42.0	53.6	29.6

TABLE II-A (con't.)

21

SHELTER AIR TEMPERATURE (DEGREES F.)  
 BASE CAM<sup>1</sup> (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 61 02' N ELEVATION 2580 DATE JUNE, 1965  
 LONG 138 25' W

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	30.9	42.1	44.0	49.2	52.5	49.8	42.0	34.5	43.2	54.0	31.0
2	33.0	35.8	40.0	47.5	49.8	47.5	43.5	38.8	42.0	56.0	34.0
3	37.8	37.2	49.0	56.0	55.0	53.0	47.4	38.8	46.8	56.0	37.0
4	35.8	39.4	41.5	47.0	44.0	36.5	38.0	34.8	39.7	47.0	35.0
5	33.9	36.1	43.0	49.8	53.0	50.1	43.1	36.9	43.2	56.0	34.0
6	33.8	40.9	45.6	49.5	50.0	47.8	46.0	41.4	44.4	50.0	31.0
7	35.8	44.1	49.9	62.0	63.1	59.0	54.0	48.0	52.0	64.0	35.0
8	40.5	48.3	55.3	62.0	61.8	60.0	57.8	46.0	54.0	64.0	36.0
9	47.8	54.9	56.9	58.1	54.0	54.3	45.0	36.6	50.9	60.0	37.0
10	33.4	41.1	47.0	51.9	56.4	57.0	56.9	48.0	49.0	60.0	33.0
11	45.0	48.0	50.8	51.8	54.9	52.5	48.3	41.9	49.1	55.0	42.0
12	40.9	43.5	51.2	54.2	57.4	54.5	45.0	37.3	48.0	58.0	39.0
13	37.1	34.1	36.0	43.5	48.9	47.0	45.5	39.5	41.4	51.0	34.0
14	37.0	35.4	39.9	47.3	52.5	54.0	49.0	40.0	44.4	56.0	35.0
15	35.0	45.0	49.5	54.7	59.0	56.0	50.8	42.9	49.2	60.0	33.0
16	35.2	43.0	45.4	47.9	45.0	52.0	47.0	42.1	45.2	54.0	34.0
17	39.7	43.2	51.0	55.0	54.5	52.8	45.8	34.8	47.1	56.0	34.0
18	32.0	41.2	45.5	53.2	54.9	51.2	46.4	35.4	45.0	57.0	28.0
19	29.8	40.0	41.2	40.0	42.8	45.3	43.0	37.2	39.9	48.0	30.0
20	30.8	40.1	46.5	51.8	53.3	52.6	47.6	37.5	45.0	55.0	28.0
21	33.5	41.0	46.2	50.0	51.1	50.4	49.0	33.2	44.3	54.0	33.0
22	31.6	38.8	44.1	43.8	48.5	51.0	46.0	39.8	42.9	54.0	31.0
23	43.9	42.2	45.0	48.0	48.1	46.0	46.8	40.5	46.3	56.0	40.0
24	35.7	46.2	52.2	58.4	57.5	49.2	47.8	42.1	48.6	61.0	35.0
25	39.0	37.8	38.8	44.2	50.2	53.0	50.1	44.8	51.0	53.0	37.0
26	42.0	42.6	42.0	56.0	60.0	61.5	58.7	40.9	50.5	64.0	38.0
27	40.0	45.3	54.8	61.2	64.2	63.5	59.0	48.5	54.6	68.0	35.0
28	38.9	46.5	53.8	59.5	61.0	60.2	49.9	39.0	51.1	65.0	39.0
29	36.0	45.9	50.3	59.4	60.8	57.3	53.2	47.8	51.3	61.0	34.0
30	42.5	47.9	52.8	57.8	61.4	60.0	58.8	44.1	53.2	62.0	42.0
	37.0	42.3	47.0	52.4	54.3	53.2	48.7	40.4	47.0	57.2	34.8

TABLE II-A (con't.)

SHELTER AIR TEMPERATURE (DEGREES F.)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 61 02' N  
 LONG 138 25' W

ELEVATION 2580

DATE JULY, 1965

YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	41.5	47.5	50.8	56.9	64.2	50.0	54.3	44.7	51.2	64.0	30.0
2	38.1	45.0	51.7	57.4	58.9	57.9	47.9	45.0	48.9	60.0	35.0
3	44.5	45.5	51.0	55.0	59.0	61.0	52.3	45.4	51.7	61.0	43.0
4	44.0	45.2	48.8	55.0	51.0	45.9	44.5	43.8	47.3	57.0	43.0
5	41.0	41.9	43.8	45.2	48.9	47.2	45.8	43.9	44.7	49.0	41.0
6	42.9	42.0	47.8	51.5	52.8	55.0	50.2	44.4	48.3	59.0	42.0
7	40.0	47.2	54.8	64.0	70.3	67.0	56.8	50.0	56.3	74.0	38.0
8	46.5	57.0	65.5	72.2	72.5	69.5	64.0	53.0	62.5	78.0	38.0
9	46.5	56.0	62.0	72.0	75.5	68.0	65.0	55.5	62.6	76.0	46.0
10	58.0	58.0	60.9	62.5	66.5	68.2	62.0	58.0	61.8	73.0	54.0
11	54.5	54.8	64.0	67.6	74.2	68.2	64.0	58.5	63.2	77.0	53.0
12	51.0	55.0	60.8	67.9	68.9	64.2	60.2	55.0	60.4	71.0	54.0
13	52.0	54.7	60.1	66.1	69.8	66.0	62.4	50.0	60.1	71.0	46.0
14	44.5	53.5	58.9	61.9	64.5	54.5	54.5	42.5	54.3	68.0	44.0
15	47.6	47.8	54.1	56.9	59.3	66.8	54.5	97.5	60.6	62.0	46.0
16	46.5	46.2	52.0	59.5	62.0	68.2	57.0	48.0	54.9	70.0	48.0
17	40.0	48.0	58.0	59.7	64.5	60.0	53.2	45.0	53.5	65.0	45.0
18	38.5	45.9	52.0	58.3	62.8	60.0	55.0	43.0	51.9	65.0	40.0
19	42.0	42.5	46.0	44.0	46.7	48.2	47.0	46.0	45.3	47.0	42.0
20	46.8	47.2	50.8	57.0	62.0	64.0	51.0	50.0	53.6	62.0	46.0
21	44.0	49.8	54.5	56.0	58.0	48.0	46.5	44.2	50.1	61.0	43.0
22	45.0	45.8	52.1	57.1	60.0	58.0	49.0	44.2	51.4	64.0	44.0
23	39.5	41.9	50.0	52.2	52.2	54.0	47.5	38.5	47.0	62.0	35.0
24	35.2	46.1	48.8	54.0	55.8	54.0	44.0	43.0	47.6	58.0	41.0
25	39.0	42.1	45.8	51.2	54.5	53.5	49.0	47.0	47.8	58.0	37.0
26	45.0	46.6	47.0	44.8	48.1	51.4	48.0	47.0	47.2	52.0	43.0
27	43.0	49.1	54.3	63.0	66.2	64.0	59.0	49.0	55.9	48.0	42.0
28	44.0	48.0	52.9	64.0	72.0	65.5	59.8	54.0	57.6	72.0	38.0
29	47.0	52.3	57.9	64.9	68.0	69.0	48.0	48.0	56.9	70.0	46.0
30	42.0	51.7	58.4	70.5	70.5	70.2	67.4	55.5	60.8	71.0	41.0
31	42.0	54.0	59.9	65.0	68.0	63.0	57.0	47.0	57.0	68.0	42.0
	44.4	48.7	54.1	59.1	62.1	59.6	54.1	49.6	54.0	62.5	40.6

TABLE II-A (con't.)

23

SHELTER AIR TEMPERATURE (DEGREES F.)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 61 02' N  
 LONG 138 25' W

ELEVATION 2580

DATE AUGUST, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	43.0	50.8	59.0	65.0	70.0	67.0	59.0	48.5	57.8	72.0	39.0
2	46.5	47.5	55.3	63.3	61.5	62.0	53.3	48.0	54.7	71.0	39.0
3	44.0	46.0	53.2	58.0	64.1	55.0	55.0	43.5	52.6	68.0	41.0
4	41.5	42.9	50.0	58.0	63.0	60.7	53.0	46.0	51.9	64.0	38.0
5	42.0	47.1	56.5	64.0	67.9	66.0	53.0	45.0	55.2	68.0	37.0
6	42.0	47.9	57.4	65.5	70.2	71.0	61.5	56.0	58.9	71.0	37.0
7	55.2	57.0	57.0	66.0	71.8	72.0	58.0	55.0	61.5	72.0	46.0
8	48.0	52.0	62.1	68.5	71.5	71.0	61.0	51.7	60.7	73.0	44.0
9	51.0	53.9	62.5	.	.	.	.	.			
10	.	.	.	.	.	.	.	.			
11	.	.	.	.	.	.	.	.			
12	.	.	.	.	.	.	.	.			
13	.	.	.	.	.	.	.	.			
14	.	.	.	.	.	.	.	.			
15	.	.	.	.	.	.	.	.			
16	.	.	.	.	.	.	.	.			
17	.	.	.	.	.	.	.	.			
18	.	.	.	.	.	.	.	.			
19	.	.	.	.	.	.	.	.			
20	.	.	.	.	.	.	.	.			
21	.	.	.	.	.	.	.	.			
22	.	.	.	.	.	.	.	.			
23	.	.	.	.	.	.	.	.			
24	.	.	.	.	.	.	.	.			
25	.	.	.	.	.	.	.	.			
26	.	.	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	.	.	.	.	.	.	.	.			
29	.	.	.	.	.	.	.	.			
30	.	.	.	.	.	.	.	.			
31	.	.	.	.	.	.	.	.			

45.2 49.5 57.5 64.1 67.9 64.4 56.7 49.2

56.9 70.0 40.2

TABLE II-B

PRECIPITATION  
BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 61° 02' N  
Long.: 138° 25' W

Elevation: 2,580 feet

Date: May, 1965

YST	03			06			09			12			15		
Date	Rain		Snow	Rain		Snow	Rain		Snow	Rain		Snow	Rain		Snow
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12							Begin Station Record								
13															
14			0.1			0.1			T			T			
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Sum			0.1			0.1			T			T			

TABLE II-B

25

May, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31				T	T					T		
Sum				T	T			T		T		0.2

Begin Station Record  
TT  
0.2

TABLE II-2

PRECIPITATION  
 BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 61° 02' N  
 Long.: 138° 25' W

Elevation: 2,580 feet

Date: June, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1			0.1			T						T			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11				T		T	T		T						
12															
13				0.1		2.3	0.1		2.3	T		T			
14	T		0.2	0.1		1.8	T		0.2						
15							T		T	T		T			
16															
17															
18															
19															
20															
21															
22										T		T			
23	T		T	T		T	T		T	T		T		T	
24															
25	T		0.5	0.1		1.5	0.1		2.5	0.1		2.3	T		0.5
26				T		0.2	T		T						
27															
28															
29															
30															
31															
Sum	T		0.7	0.3		5.8	0.2		5.0	0.1		2.3	T		0.5

TABLE II-3

27

June, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1							T	T		T		
2												0.1
3												
4	T	0.4		T	T					T	0.4	
5												
6												
7												
8												
9												
10												
11										T	T	
12												
13	T	T					T	T		0.2	4.6	
14										0.1	2.2	
15										T	T	
16												
17												
18												
19												
20												
21												
22										T	T	
23	T	T								T	T	
24				T	T		0.1	1.3		0.1	1.3	
25										0.3	7.3	
26												
27										T	0.2	
28												
29												
30												
31												
Sum	T	0.4		T	T		0.1	1.3		0.7	16.0	0.1



TABLE II-B

PRECIPITATION  
BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 61° 02' N

Long.: 138° 25' W

Elevation: 2,580 feet

Date: July, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5	T	0.5		T	0.5		T	0.5		T	0.2		T	T	
6	T	0.1		0.1	1.8		T	1.3					0.1	1.5	
7															
8															
9															
10															
11															
12															
13															
14															
15															
16	0.1	3.3		0.1	2.0										
17															
18															
19				T	0.5		T	0.2		T	1.2		0.1	1.5	
20															
21															
22															
23															
24															
25							T	T							
26							T	T		0.1	2.0		T	0.8	
27	T	0.2		T	0.5										
28															
29															
30															
31															
Sum	0.1	4.6		0.2	5.3		T	2.0		0.1	3.4		0.2	3.8	

TABLE II-B

29

July, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3												
4	T			T			T			T		
5										T		
6	0.1	1.5		T	1.0					0.3		
7												
8												
9												
10												
11												
12												
13												
14												
15							0.1	2.5		0.1		
16										0.2		
17												
18												
19	0.2	4.1		0.1	2.0		0.1	2.5		0.5		
20										T		
21							T	0.5		T		
22												
23												
24												
25										T		
26	T			T	1.0		0.1	3.3		0.2		
27										T		
28												
29												
30												
31												
Sum	0.3	5.6		0.1	4.0		0.3	8.8		1.3		

PRECIPITATION  
BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 61° 02' N  
Long.: 138° 25' W

Elevation: 2,580 feet

Date: August, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Sum															
Summer Total	0.1	5.3	0.2	0.5	11.1	0.1	0.2	7.0	T	0.2	5.7	T	0.2	4.3	

14 May-9 August

TABLE II-B

31

August, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Sum												
Summer Total	0.3	6.0		0.1	4.0		0.4	10.1		2.0	53.5	0.3
1. May-9 August												

End Station Record

TABLE II-C

WIND DIRECTION (36-PT. COMPASS), 200 CM.  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 44' N ELEVATION 2580 DATE MAY, 1965  
 LONG 139 08' W

DATE	YUKON STANDARD TIME						21	24	MEAN
	03	06	09	12	15	18			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	18	19	21	19	20	09	09	08	
15	C	C	C	35	C	C	02	C	
16	14	35	34	34	20	27	20	C	
17	C	C	C	30	30	22	21	C	
18	C	C	22	20	28	21	20	C	
19	11	34	25	05	25	20	15	10	
20	08	24	22	22	20	27	06	06	
21	18	C	25	27	20	20	09	09	
22	C	C	27	27	35	27	09	02	
23	09	05	22	22	24	25	09	C	
24	C	C	25	22	13	09	02	25	
25	23	20	27	13	15	09	11	09	
26	09	21	22	25	21	21	20	C	
27	09	35	31	10	26	11	18	09	
28	09	08	24	19	C	27	11	29	
29	C	C	21	23	25	20	18	16	
30	11	10	21	24	23	25	27	20	
31	20	20	21	21	21	05	18	04	

TABLE II-C (con't.)

33

WIND DIRECTION (36-PT. COMPASS), 200 CM.  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 44' N  
 LONG 139 08' W

ELEVATION 2580

DATE JUNE, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	09	16	30	22	06	36	C	36	
2	C	19	19	26	34	20	04	09	
3	09	19	17	11	10	12	11	11	
4	09	18	21	10	35	18	C	20	
5	33	20	19	35	35	27	20	02	
6	C	21	21	25	36		25	22	
7	C	21	19	21	36		25	17	
8	C	23	21	27	27	C	27	C	
9	18	12	09	18	12	18	14	C	
10	15	09	27	24	27	27	C	C	
11	35	12	33	12	12	13	13	09	
12	20	34	16	11	19	27	20	02	
13	C		C	32	32	18	18	07	
14	18	32	C	32	20	27	18		
15		C	18	20	27	16	01	01	
16	C	22	09	11	09	09	11	11	
17	C	C	20	20	22	20	C	C	
18	07	C	23	23	27	25	09	14	
19	04	07	18	08	09	09	11	08	
20	07	27	35	25	11	08	C	09	
21	13	09	26	C	11	09	C		
22	11	C	C	C	20	C	C	C	
23	09	30	C	05	31	18	20	C	
24	11	22	25	20	24	C	21	14	
25	C	C	C	18	21				
26		18	20	21	C	11	20	09	
27	11	C	18	22	21	18	23	15	
28	09	20	19	19	22	09	10	07	
29	08	C	18	14	33	27	24	19	
30	15	15	18	24	31		18	C	

TABLE II-C (con't.)

WIND DIRECTION (36-PT. COMPASS) - 200 CM.  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 44' N ELEVATION 2530 DATE JULY, 1965  
 LONG 139 08' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1		C	11	27	13	13	08	08	
2	12	16	18	C	12	16	22	18	
3	18	18	17	07	09	19	09	04	
4	21	20	25	C	35	06	C	02	
5	13	10	C	20	23	22	17	17	
6	16	18	C	22	C	23	C	11	
7	C	C	31	C	C	20	C	10	
8	10	09	22	20	24	24	20	12	
9	09	09	19	20	20	20	22	19	
10		C	C	10	30	C	C	08	
11	09	C	C	04	23	24	19	15	
12	11	20	21	22	C	29	21	19	
13	16	C	18	22	08	19	03	14	
14	10	18	17	18	24		22	12	
15	12	14	19	21	36	05	23	14	
16	C	18	21	C	34	C	16	11	
17	12	05	20	21	23	22	14	17	
18	C	20	17	17	11	26	11	C	
19	C	C	15	15	12	C	04	C	
20	09	C	17	19	26	31	09	12	
21	11	14	17	17	22	33	C	11	
22	18	14	17	17	10	23	05	12	
23	12	C	19	10	32	21	09	11	
24	09	07	22	21	25	08	10	08	
25	10	C	17	16	31	36	04	05	
26	02	33	36	01	36	36	09	11	
27	C	C	13	18	19	20	15	12	
28	11	C	10	28	27	23	15	15	
29	12	11	17	22	18	26	15	15	
30	11	30	C	14	19	17	18	18	
31	12	12	21	12	C	27	18	11	

**TABLE II-C (con't.)**

35

WIND DIRECTION (36-PT. COMPASS), 200 CM.  
BASE CAMP (LAKE KLUANE)  
YUKON TERRITORY, CANADA

LAT 60 44' N  
LONG 139 08' W

ELEVATION 2580

DATE AUGUST, 1965

[illegible]



TABLE II-D

WIND VELOCITY (MPH), 200 CM.  
BASE CAMP (LAKE KLUANE)  
YUKON TERRITORY, CANADA

LAT 60 45' N ELEVATION 2580 DATE MAY, 1965  
LONG 139 40' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	08	04	07	03	03	03	02	03	4.1
15	00	00	00	03	00	00	09	00	1.5
16	13	04	13	04	03	03	07	00	5.9
17	00	00	00	03	04	03	09	00	2.4
18	00	00	00	05	02	04	06	00	2.4
19	03	01	04	05	01	01	01	01	2.1
20	01	01	06	04	04	10	02	01	3.6
21	01	00	01	10	10	03	03	03	3.9
22	00	00	01	02	02	04	01	06	2.0
23	02	02	06	04	06	10	03	00	4.1
24	00	00	05	07	02	08	05	05	4.0
25	10	08	09	12	25	25	10	05	13.0
26	02	03	05	06	12	08	01	00	4.6
27	01	03	07	02	01	01	04	02	2.6
28	03	04	04	02	00	09	03	01	3.3
29	00	00	00	04	05	06	06	14	4.6
30	02	03	05	05	10	10	05	05	5.6
31	07	08	02	06	06	04	02	05	5.0
	2.9	2.3	4.2	4.5	5.3	6.2	4.4	2.8	4.1

TABLE II-D (con't.)

WIND VELOCITY (MPH), 200 CM.  
BASE CAMP (LAKE KLUANE)  
YUKON TERRITORY, CANADA

LAT	60	45' N	ELEVATION	2580	DATE	JUNE, 1965			
LONG	139	40' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1	03	03	05	05	04	03	00	02	3.1
2	00	04	03	03	04	10	10	08	5.3
3	06	08	10	10	09	18	10	06	9.6
4	03	06	01	06	10	03	00	06	4.4
5	02	10	04	08	07	12	07	04	6.8
6	00	04	04	03	03	08	09	01	4.0
7	00	05	07	05	04		11	02	
8	00	08	07	10	12	00	03	00	5.0
9	02	11	13	11	13	10	08	00	8.5
10	04	01	03	06	10	05	00	00	3.6
11	04	01	01	03	03	09	02	05	3.5
12	05	04	06	16	07	05	10	03	7.0
13		00	00	00	2		04	05	
14	02	03	00	03	05	05	04		
15			05	07			05	08	
16	00		11	32	40	23			
17	00	00	09	06	09	09	00	00	4.1
18	02	00	05	05	02	09	08	06	4.6
19	03	02	04	17	17	12	14	06	9.4
20	03	02	02	05	11	11	00	05	4.9
21	02	02	02	00	08	02	00		
22	02	16	00	02	04	00	00	00	3.0
23	02	04	00	02	01	03	07	00	2.4
24	01	02	04	03	03	00	08	02	2.9
25	00	00	00	02	03				
26		03	04	02	00	09	02	02	
27	02	00	03	10	00	02	05	07	3.9
28	02	05	04	03	05	06	06	03	4.3
29	03	00	08	05	05	06	11	07	5.6
30	06	05	08	03	06		07	00	
	2.1	3.3	4.4	6.6	7.4	6.7	5.4	3.4	4.9

TABLE II-B (con't.)

WIND VELOCITY (MPH) 200 CM.  
BASE CAMP (LAKE KLUANE)  
YUKON TERRITORY CANADA

LAT 60 45' N			ELEVATION 2500			DATE JULY, 1965			
LONG 139 40' W									
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1	02	00	03	03	11	09	17	08	6.8
2	01	04	04	00	07	09	14	07	5.0
3	18	03	01	08	02	03	03	04	5.3
4	05	07	05	00	07	01	00	11	4.5
5	03	02	00	09	09	10	05	03	5.1
6	03	03	00	02	00	04	00	01	1.6
7	00	00	01	00	00	09	00	05	1.9
8	04	04	01	08	06	06	10	07	5.9
9	04	02	02	04	04	09	07	03	4.4
10		00	01	05	04	00	00	04	
11	04	00	00	03	02	05	07	04	3.1
12	04	05	08	07	00	04	10	11	6.1
13	07	00	04	03	10	06	05	05	5.0
14	04	07	03	03	12		11	03	
15	01	03	03	02	04	08	03	03	3.4
16	00	02	04	00	02	00	03	04	1.9
17	01	03	09	08	05	08	08	06	6.0
18	00	03	08	08	06	02	02	00	3.6
19	00	00	04	03	05	00	04	00	2.0
20	03	00	05	08	03	07	01	03	3.8
21	04	02	02	06	09	13	00	02	4.8
22	05	04	03	04	07	07	07	03	5.0
23	03	00	06	11	05	02	02	02	3.9
24	02	02	10	04	07	07	10	05	5.9
25	04	00	02	04	04	04	03	01	2.8
26	10	23	17	05	04	01	01	01	7.8
27	00	00	03	05	04	04	04	04	3.0
28	01	00	01	01	01	04	05	04	2.1
29	03	02	02	02	03	02	02	02	2.4
30	02	01	00	03	04	09	12	02	4.1
31	02	02	04	00		12	07	05	
	3.4	2.7	3.8	4.3	4.6	5.4	5.2	3.9	4.1

TABLE II-D (con't.)

39

WIND VELOCITY (MPH), 200 CM.  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 45' N  
 LONG 139 40' W

ELEVATION 2580

DATE AUGUST, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	04	00	03	07	04	05	08	05	4.5
2	00	00	06	04	02	07	05	00	3.0
3	00	05	05	00	03	03	04	03	3.1
4	00	03	05	04	03	04	02	03	3.0
5	04	00	04	06	04	05	04	04	3.9
6	01	00	03	00	00	00		01	.6
7	01	03	07	01	03	02	04	02	2.3
8	04	03	05	04	05	04	03	05	3.1
9	02	04	02						
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
	1.7	2.0	3.8	3.8	3.2	3.6	3.8	2.9	3.1

TABLE II-E

PRESSURE (900+ MB.)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 20' N ELEVATION 2580 DATE MAY, 1965  
 LONG 139 55' W

DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	241	248	252	246	237	225	228	229	238.3
15	226	221	197	179	157	139	138	144	175.1
16	145	153	157	166	172	179	193	212	172.1
17	225	242	248	247	247	245	260		244.8
18	283	288	285	267	251	241	244	248	263.4
19	245	247	227	217	194	179	187	198	211.8
20	200	214	212	194	186	182	185	201	196.8
21	206	200	197	185	180	180	189	204	193.0
22	212	226	232	228	226	227	246	256	231.6
23	271	280	272	256	246	237	245	241	256.0
24	233	226	227	205	196	176	172	162	200.0
25	151	146	147	158	175	184	210	227	174.8
26	233	242	243	237	229	225	233	238	235.0
27	232	229	224	211	201	191	195	199	210.3
28	205	208	210	201	196	197	211	226	206.8
29		227	221	202	186	174	187	196	197.5
30	197	194	162	167	147	137	139	131	161.8
31	122	088	071	049	033	047	079	106	74.4
	213	216	211	201	192	187	198	201	202.5

PRESSURE (900+ MB.)  
BASE CAMP (LAKE KLUANE)  
YUKON TERRITORY, CANADA

LAT	60	20' N	ELEVATION	2580	DATE	JUNE, 1965			
LONG	139	55' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1	119	126	124	115	096	086	095	104	108.1
2	106	119	131	132	134	142	163	168	136.9
3	176	185	171	158	163	165	183	206	175.9
4	203	182	175	158	157	172	181	212	180.0
5	238	256	265	267	264	253	262	259	258.0
6	260	249	236	219	203	180	177	173	212.1
7	160	145	132	113	100		102	111	171.0
8	113	106	096	084	077	084	084	088	91.5
9	096	104	115	125	132	147	169	199	135.9
10	214	217	207	183	149	128	118	106	165.3
11	096	100	090	090	085	088	093	102	93.0
12	115	125	124	115	120	117	128	145	123.6
13	114	155	155	149	142	138	140	157	143.8
14	177	174	187	175	167	156	166		
15		196	190	183	176	169	172	180	
16	170	145	116	099					
17		360	366	368	360		390		
18	422	425	425						
19					270				
20				159	165	173	192	210	
21	227	240	242	242	240	239	248	258	242.0
22	264	256	248	230	218	195	192	179	222.8
23	178	172	170	165	165	159	164	178	168.9
24	185	199	205	200	200	225	227	247	211.0
25	255	260	260	255	245	246			
26		265	260		240	239	246	261	
27	273	283	282	281	277	276	278	289	279.0
28	298	296	290	284	278	280	303	322	293.9
29	324	325	317	300	286	276	275	277	297.5
30	274	268	254	239	234		237	244	250.0
	203	212	208	188	191	181	192	195	

TABLE II-E (con't)

PRESSURE (900+ MB.)  
BASE CAMP (LAKE KLUANE)  
YUKON TERRITORY, CANADA

LAT	60	20' N	ELEVATION	2580	DATE	JULY, 1965			
LONG	139	55' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1	247	234	222	205	199	180	209	238	173.4
2	242	240	230	211	211	200	194	196	216.0
3	187	175	165	158	150	140	150	160	160.6
4	173	183	185	192	200	228	239	255	206.9
5	273	277	274	293	290	294	296	304	287.6
6	310	319	327	326	334	328	334	343	327.6
7	348	356	350	348	331	319	323	327	337.8
8	329	338	321	306	296	289	293	301	309.1
9	301	300	294	280	270	257	270	282	281.3
10		292	290	280	270	259	269	274	276.2
11	274	288	273	264	246	236	246	259	260.8
12	264	273	265	254	241	237	239	250	252.9
13	250	255	253	239	229	212	216	218	234.1
14	219	217	213	200	187		207	218	208.7
15	228	235	240	239	236	242	261	281	245.3
16	288	299	294	281	270	254	258	265	276.1
17	266	265	254	230	215	206	214	222	234.0
18	223	215	204	204	173	166	180	185	193.8
19	188	190	195	198	196	204	213	209	199.1
20	209	216	212	197	185	174	179	187	194.5
21	176	184	190	182	188	222	246	264	206.3
22	218	298	310	310	307	304	318	324	298.6
23	322	316	303	285	266	256	256	257	282.9
24	253	253	253	244	235	233	240	242	244.1
25	243	236	232	215	206	202	212	222	220.3
26	226	243	246	266	271	275	285	297	263.4
27	300	310	310	305	304	304	312	316	307.6
28	323	334	335	324	312	301	313	324	320.8
29	335	350	345	338	327	316	325	330	333.3
30	331	333	328	311	301	305	310	310	316.1
31	308	312	315	320	303	300	300	306	308.0
	262	269	265	258	249	246	255	262	258.5

TABLE II-E (con't).

PRESSURE (900 MB.)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 20' N  
 LONG 139 55' W

ELEVATION 2580

DATE AUGUST, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	308	305	300	292	275	267	293	276	289.5
2	277	270	258	235	220	213	226	242	242.6
3	244	255			238	231	254	264	
4	268	277	285	280	273	263	272	275	274.1
5	275	297	289	283	276	272	280	290	282.8
6	320	300	300	290	288	266	269	275	288.5
7	275	281	270	264	244	270	226	232	257.8
8	236	240	238	238	212	212	214	244	229.2
9	249	254	242						
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
	273	275	273	263	249	247	254	262	264.0



TABLE II-F

RELATIVE HUMIDITY (PERCENTAGE)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT	60° 43' N	ELEVATION	2580	DATE	MAY, 1965				
LONG	139° 08' W								
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	100	100	100	082	061	053	075	075	80.8
15	086	075	085	062	071	063	085	095	77.8
16	095	090	080	063	035	060	075	078	72.0
17	085	080	066	068	054	046	056	079	66.8
18	070	070	080	058	049	070	074	073	69.1
19	080	083	071	038	033	053	072	075	63.1
20	088	066	072	058	062	042	065	070	65.4
21	080	058	050	048	038	056	053	070	57.8
22	075	062	058	043	050	058	059	064	58.6
23	086	077	072	064	066	074	051	062	69.0
24	075	076	060	058	035	054	075	092	65.6
25	092	086	069	047	038		054	074	
26	080	081	072	047	058	052	063	092	68.1
27	091	077	078	044	044	043	054	081	64.0
28	080	077	064	047	050	053	057	067	61.9
29	078	086	082	072	063	053	057	073	
30	087	083	073	057	044	044	067	068	65.4
31	082	074	067	062	046	047	078	073	66.1
	85	78	69	57	50	54	64	76	66.7

TABLE II-F (con't.)

45

RELATIVE HUMIDITY (PERCENTAGE)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 43' N  
 LONG 139 08' W

ELEVATION 2580

DATE JUNE, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	085	058	062	044	030	042	068	096	63.7
2	095	084	077	054	038	047	041	054	61.3
3	053	055	045	030	032	027	040	045	40.9
4	059	062	060	045	057	067	077	091	64.8
5	085	084	051	043	027	041	047	054	54.0
6	053	058	049	041	041	059	054	064	52.4
7	075	066	054	037	040	027	024	045	46.0
8	040	042	032	031	033	026	027	034	34.4
9	044	031	032	031	028	031	044	054	37.0
10	054	063	044	043	034	036	035	039	43.5
11	060	067	067	076	064	042	043	053	59.0
	065	063	030	059	022	028	047	061	47.1
12	063	100	091	078	074	071	058	092	78.4
14	090	092	074	076	058	051	058	053	69.0
15	066	050	052	037	044	035	045	061	48.9
16	075	059	070	059	053	044	040	047	55.9
17	052	041	038	029	023	077	045	065	46.3
18	087	056	051	060	040	047	043	066	56.3
19	070	070	045	074	068	054	058	068	63.4
20	075	070	044	036	082	034	039	058	54.8
21	069	065	057	042	029	034	034	062	49.0
22	071	069	056	060	050	041	060	067	59.3
23	065	075	074	074	068	056	080	093	73.1
24	091	071	079	046	045	064	060	089	68.1
25	092	100	100	082	065	062	065	084	81.4
26	080	086	080	055	039	022	044	060	58.4
27	055	054	042	033	030	036	044	044	42.4
28	065	062	048	042	032	034	044	075	50.3
29	075	072	056	043	039	045	053	068	56.4
30	076	071	061	053	046	051	060	070	61.0
	69	67	58	50	43	44	49	64	

TABLE II-F (con't.)

RELATIVE HUMIDITY (PERCENTAGE)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 43' N  
 LONG 139 08' W

ELEVATION 2580

DATE JULY, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	081	075	072	057	052	031	041	059	58.5
2	072	064	060	050	042	044	060	066	57.6
3	076	076	060	052	050	035	048	053	57.3
4	056	059	049	038	073	086	090	075	65.8
5	092	089	079	082	070	076	083	086	82.4
6	080	096	090	085	094	070	084	093	86.5
7	092	086	075	062	054	032	058	067	65.9
8	066	052	040	027	019	032	037	044	41.0
9	058	055	040	036	037	041	036	054	44.6
10		068	060	071	050	049	062	071	
11	077	066	079	061	046	050	049	050	59.8
12	065	067	054	044	042	047	051	062	54.1
13	070	070	059	048	040	048	052	070	57.4
14	088	074	064	056	050		056	066	72.4
15	072	076	062	057	060	070	068	094	69.9
16	094	086	072	059	049	043	056	068	65.9
17	090	070	064	056	047	050	056	068	62.6
18	088	074	065	052	046	048	060	075	63.5
19	082	098	092	096	096	094	095	098	93.9
20	092	086	080	060	050	038	080	064	69.0
21	080	062	049	080	048	080	083	090	71.5
22	080	076	058	050	042	042	052	066	56.3
23	080	078	068	062	058	060	066	086	69.8
24	096	069	066	048	042	040	055	064	53.9
25	079	076	064	058	050	050	080	084	67.6
26	088	086	078	093	084	074	099	098	87.5
27	098	082	068	046	026	036	038	050	58.1
28	078	076	056	042	038	026	052	062	52.3
29	078	070	060	048	040	044	058	076	59.3
30	090	072	060	046	044	032	062	062	58.5
31	094	070	054		040	042	053	069	
	81	74	64	58	51	51	60	71	63.8

TABLE II-F (con't.)

47

RELATIVE HUMIDITY (PERCENTAGE)  
 BASE CAMP (LAKE KLUANE)  
 YUKON TERRITORY, CANADA

LAT 60 43' N  
 LONG 139 08' W

ELEVATION 2580

DATE AUGUST, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	080	070	050	048	040	042	058	076	58.0
2	080	086	065	050	048	042	055	072	62.3
3	084	080	056	056	046	055	060	081	64.7
4	087	084	070	060	054	054	053	060	65.3
5	072	064	050	042	036	042	052	065	52.9
6	070	068	050	044	036	038		058	
7	087	070	070	058	047	045	062	065	63.0
8	075	074	058	048	048	042	049	060	56.7
9	065	055	048						
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									

78

72

53

50

44

46

56

67

TABLE II-G

CLOUDINESS (TENTHS OF SKY DOME)  
 BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 61° 02' N

Long.: 138° 25' W

Elevation: 2,580 feet

Date: May, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14	10	10	10	9	7	5	1	1	6.6		
15	1	3	4	5	6	3	5	9	4.5		
16	5	3	2	8	6	3	0	0	3.9		
17	0	0	2	2	2	1	1	-	---		
18	1	2	0	1	1	1	1	1	1.0		
19	1	1	1	1	1	1	1	1	1.0		
20	1	1	1	1	0	0	1	1	.8		
21	1	1	1	2	4	4	4	3	2.5		
22	8	10	6	5	3	2	1	1	4.5		
23	7	2	1	1	1	6	5	8	3.9		
24	10	7	1	1	3	9	10	9	6.3		
25	8	5	4	3	7	7	8	9	6.4		
26	10	10	7	1	1	1	1	3	9.3		
27	3	8	10	9	8	9	7	2	7.0		
28	6	7	6	6	7	7	6	7	6.5		
29	9	6	2	1	1	1	1	0	2.6		
30	0	0	1	1	0	2	7	10	2.6		
31	9	8	6	-	8	9	4	1	---		
Mean	6.5	4.9	3.8	3.4	3.9	4.2	3.8	4.9	4.4		

TABLE II-G (con't.)

49

CLOUDINESS (TENTHS OF SKY DOME)  
 BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 61° 02' N

Long.: 138° 25' W

Elevation: 2,580 feet

Date: June, 1955

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	1	8	10	10	6	7	8	10	7.5		
2	10	10	9	6	4	1	7	1	6.0		
3	5	6	5	5	6	3	4	9	5.4		
4	7	10	10	10	7	9	10	2	8.1		
5	8	4	5	6	3	2	7	9	5.5		
6	9	3	9	10	9	8	9	9	8.3		
7	8	10	8	3	2	-	7	5	---		
8	4	4	1	-	2	6	8	7	---		
9	4	2	3	8	6	6	9	4	5.3		
10	1	1	2	3	2	5	10	10	4.3		
11	10	10	8	9	6	4	1	2	6.3		
12	2	4	6	5	3	7	4	9	5.0		
13	10	10	10	10	9	8	7	10	9.3		
14	10	10	8	6	6	1	2	4	5.7		
15	4	3	10	8	8	9	2	2	5.8		
16	5	8	10	8	5	5	7	6	6.8		
17	5	6	4	4	6	4	2	1	4.0		
18	3	3	3	6	7	6	1	1	3.8		
19	2	8	10	10	7	5	3	1	5.8		
20	3	5	3	6	5	2	2	3	3.6		
21	2	3	2	6	6	2	2	-	---		
22	2	7	6	6	6	8	5	7	5.9		
23	9	10	10	8	8	9	8	4	8.3		
24	2	5	4	6	6	9	10	10	6.5		
25	10	10	-	9	6	10	10	10	---		
26	10	9	8	5	4	2	2	3	5.4		
27	4	4	1	1	3	2	2	3	2.5		
28	2	1	5	9	7	3	4	1	4.0		
29	1	2	9	10	10	10	10	10	7.8		
30	10	10	10	10	7	-	9	6	---		
31											
Mean	5.7	6.2	6.3	7.0	5.7	5.5	5.8	5.5	6.0		

TABLE II-G (con't.)

CLOUDINESS (TENTHS OF SKY DOME)  
 BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 61° 02' N  
 Long.: 138° 25' W

Elevation: 2,580 feet

Date: July, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	9	10	10	5	5	6	6	9	7.5		
2	5	10	10	10	10	10	8	10	9.1		
3	9	10	10	10	8	7	10	10	9.3		
4	10	10	10	10	10	10	10	10	10.0		
5	10	10	10	10	10	9	9	10	9.8		
6	10	10	10	8	8	6	4	6	7.8		
7	3	0	2	3	4	5	4	2	2.9		
8	1	1	8	8	10	10	8	2	6.0		
9	3	5	2	1	1	2	4	-	---		
10	-	7	4	5	5	10	10	10	---		
11	9	10	8	10	8	9	10	9	9.1		
12	10	10	10	10	10	-	8	10	---		
13	8	6	4	5	9	6	9	8	6.9		
14	6	9	9	8	5	-	-	4	---		
15	8	9	9	8	9	9	10	10	9.0		
16	10	10	5	4	3	6	2	0	5.0		
17	0	1	0	2	3	3	4	3	2.0		
18	5	8	6	4	6	4	5	4	5.3		
19	8	10	10	10	10	10	10	10	9.8		
20	10	10	8	7	4	4	7	10	7.5		
21	6	5	7	9	7	9	10	10	7.9		
22	10	10	7	5	5	5	7	5	6.8		
23	8	10	10	5	5	6	2	1	5.9		
24	1	4	6	3	5	3	6	5	4.1		
25	5	9	8	9	7	7	4	9	7.3		
26	6	9	10	10	9	9	10	10	9.1		
27	6	6	2	1	1	1	1	2	2.5		
28	1	8	5	2	2	5	8	1	4.0		
29	3	7	8	6	4	5	1	1	4.4		
30	3	6	6	6	7	10	8	-	---		
31	3	1	3	4	4	4	-	-	---		
Mean	6.2	7.5	7.0	6.4	6.3	6.1	6.3	6.2	6.5		

TABLE II-G (con't.)

51

CLOUDINESS (TENTHS OF SKY DOME)  
 BASE CAMP (LAKE KLUANE), ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 61° 02' N

Long. : 138° 25' W

Elevation: 2,580 feet

Date: August, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	1	3	0	1	2	1	2	3	1.6		
2	4	8	7	6	5	6	5	8	6.1		
3	9	6	10	-	5	3	2	2	---		
4	2	8	9	8	7	4	3	1	5.2		
5	2	9	10	8	9	0	0	0	4.8		
6	-	2	8	8	10	10	10	10	---		
7	8	10	9	7	8	6	5	4	7.1		
8	3	4	4	3	3	1	2	0	2.5		
9	0	2	2	-	-	-	-	-	---		
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Mean	3.6	5.8	6.5	5.9	6.1	3.9	3.6	3.5	4.9		



TABLE III-A

SHELTER AIR TEMPERATURE (DEGREES F.)  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 61 02' N  
LONG 138 25' W

ELEVATION 8760

DATE JUNE, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	.	.	.	.	.	.	.	.			
2	.	.	.	.	.	.	.	.			
3	.	.	.	.	.	.	.	.			
4	.	.	.	.	.	.	11.5	09.1			
5	08.9	10.1	17.2	17.1	20.0	15.5	07.0	10.0	13.2	18.0	4.0
6	10.5	15.0	20.2	24.9	27.2	27.2	26.8	26.5	22.3	28.0	10.0
7	26.6	29.2	33.0	35.1	32.5	32.0	25.2	21.9	29.4	36.0	20.0
8	21.3	27.0	31.5	33.0	37.0	28.3	27.0	20.5	28.2	37.0	20.0
9	15.1	20.0	24.2	22.0	21.3	12.0	13.5	08.4	17.1	22.0	8.0
10	10.0	13.5	13.0	21.3	21.0	20.6	21.9	21.0	17.7	23.0	4.0
11	21.5	21.0	22.0	29.8	24.4	21.9	19.8	17.3	22.2	31.0	20.0
12	16.2	13.9	15.0	17.6	19.0	12.5	13.0	15.3	15.3	19.0	12.0
13	13.2	16.3	18.6	26.0	22.2	18.3	18.0	13.5	18.3	32.0	8.0
14	14.2	10.9	24.1	24.8	28.8	23.6	16.3	13.9	19.6	38.0	4.0
15	08.7	19.0	19.8	24.3	23.8	21.1	18.6	15.3	18.8	24.0	6.0
16	18.2	21.0	24.7	21.8	--	16.5	14.9	14.3	18.8	25.0	13.0
17		15.0	16.7	19.3	17.8	17.2	13.3	07.8		19.0	10.0
18	06.9	12.7	17.8	20.0	21.3	19.5	12.5	11.1	15.2	22.0	6.0
19	14.0	15.5	18.0	21.0	19.0	16.0	12.3	10.4	15.8	21.0	10.0
20	09.8	11.5	15.1	18.0	17.1	13.2	04.0	06.0	11.8	13.0	2.0
21	05.0	10.0	15.5	19.0	21.3	15.0	08.2	07.0	12.6	22.0	2.0
22	05.0	07.0	17.0	21.2	20.5	19.0	17.5	17.5	15.6	22.0	2.0
23	21.5	20.5	25.0	28.2	27.5	24.0	20.0	22.0	23.6	29.0	18.0
24	21.0	20.5	26.0	26.2	24.0	22.0	20.0	21.8	22.7	26.0	19.0
25	21.0	22.0	25.5	31.0	32.0	32.0	22.0	18.5	25.5	40.0	15.0
26	22.5	24.0	27.5	27.7	28.8	23.8	21.1	15.5	23.8	28.0	13.0
27	11.6	20.0	35.4	33.5	21.0	28.2	17.0	12.0	23.6	35.0	10.0
28	01.0	02.2	29.5	34.8	31.0	28.8	21.0	12.0	20.0	35.0	1.0
29	16.0	21.7	27.3	31.0	33.2	29.0	26.9	24.5	26.2	29.0	7.0
30	25.3	28.0	29.0	32.6	29.0	30.5	26.8	27.2	28.5	31.0	25.0
31	.	.	.	.	.	.	.	.			
14.6 17.3 22.7 25.3 25.5 21.7 17.5 15.3									20.0	27.3	10.3

TABLE III-A (con't.)

53

SHELTER AIR TEMPERATURE (DEGREES F.)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

LAT 61 02' N ELEVATION 8760 DATE JULY, 1965  
 LONG 138 25' W

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	26.0	28.0	28.5	27.0	29.0	28.4	21.7	18.4	25.9	28.0	5.0
2	20.0	24.0	25.5	27.0	27.0	25.2	25.2	22.0	24.5	26.0	17.0
3	21.5	--	28.0	28.0	28.0	21.2	17.5	15.2	22.8	28.0	15.0
4	16.8	18.2	21.1	26.9	25.0	20.0	18.0	18.5	20.6	26.9	16.8
5	18.0	22.5	28.3	33.0	33.9	29.9	26.0	26.8	27.3	28.0	15.0
6	26.3	28.0	32.4	32.9	32.5	31.9	29.5	28.1	30.2	34.0	26.0
7	25.5	27.6	34.0	43.9	44.0	39.5	28.3	25.0	33.5	55.0	24.0
8	30.0	32.0	39.2	39.8	38.0	38.0	32.0	32.5	35.2	46.0	23.0
9	27.0	36.2	43.0	43.0	40.8	39.0	36.5	37.0	37.8	43.0	27.0
10	34.5	37.5	40.2	42.2	43.0	42.0	31.0	32.0	37.8	46.0	29.0
11	30.0	39.2	42.0	42.5	41.0	38.5	33.1	34.2	37.6	48.0	30.0
12	30.0	39.2	35.0	39.0	36.5	32.5	32.0	30.2	34.3	42.0	28.0
1	31.0	34.0	35.0	35.0	36.0	33.1	31.5	29.5	33.1	38.0	30.0
14	29.6	31.0	45.0	45.0	32.5	30.0	25.5	24.7	32.9	45.0	30.0
15	25.2	26.3	32.0	45.0	35.0	27.6	25.0	28.2	30.5	50.0	22.0
16	27.0	28.0	30.0	32.0	34.0	30.8	25.1	25.0	29.0	50.0	21.0
17	26.9	27.5	33.0	32.0	30.8	27.5	25.6	25.5	28.5	38.0	24.0
18	26.0	28.9	34.6	34.7	32.8	25.0	27.5	26.0	29.4	39.0	24.0
19	24.0	29.0	30.4	29.0	29.1	29.0	28.0	27.0	21.9	34.0	25.0
20	28.0	29.1	34.4	35.7	31.0	29.0	26.0	24.0	29.7	42.0	25.0
21	22.0	23.7	23.9	26.0	25.8	23.0	22.0	19.0	23.2	27.0	22.0
22	20.0	19.5	28.0	34.4	31.0	24.0	21.0	18.0	24.5	41.0	15.0
23	15.0	20.3	23.9	25.5	25.2	22.0	20.0	17.0	21.1	26.0	16.0
24	19.0	19.9	21.1	21.2	20.0	19.0	18.4	17.2	19.5	21.0	17.0
25	15.0	14.0	22.0	25.0	26.0	25.0	23.0	21.0	21.4	26.0	14.0
26	20.0	24.0	24.0	26.0	27.0	28.0	26.0	24.0	24.9	30.0	23.0
27	24.0	27.0	34.0	32.0	33.5	32.0	28.5	30.0	30.2	34.0	17.0
28	24.0	33.0	42.5	38.0	40.0	34.0	34.0	26.0	34.0	42.0	21.0
29	27.0	32.0	38.0	42.6	40.4	37.2	34.0	29.0	35.0	44.0	22.0
30	31.0	33.5	36.5	39.1	37.0	30.8	28.4	29.0	33.2	41.0	27.0
31	30.0	28.0	30.0	36.5	32.0	30.0	27.0	27.1	29.6	37.0	21.0
	24.8	28.1	32.1	34.2	32.8	31.2	26.7	25.5	29.4	37.6	21.8

TABLE III-A (con't.)

SHELTER AIR TEMPERATURE (DEGREES F.)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

LAT 61 02' N  
 LONG 138 25' W

ELEVATION 8760

DATE AUGUST, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	27.8	28.0	40.0	38.0	41.0	33.0	24.7	22.0	31.4	50.0	20.0
2	24.5	22.5	32.5	29.0	27.5	26.9	25.2	24.0	26.5	33.0	23.0
3	23.0	23.0	30.2	30.8	30.8	27.0	21.0	17.3	25.4	31.0	17.0
4	22.1	23.8	31.6	34.8	--	33.1	27.4	25.8	28.4	39.0	16.0
5	25.1	28.0	33.8	41.5	35.1	32.8	29.4	23.9	31.2	43.0	24.0
6	26.4	28.2	44.0	39.5	42.0	38.8	34.5	34.2	35.9	44.0	22.0
7	31.5	--	35.8	38.0	40.9	35.6	30.0	32.8	34.9	42.0	28.0
8	26.2	31.0	36.9	38.9	38.9	34.5	27.1	32.5	33.2	43.0	23.0
9	.	.	.	.	.	.	.	.			
10	.	.	.	.	.	.	.	.			
11	.	.	.	.	.	.	.	.			
12	.	.	.	.	.	.	.	.			
13	.	.	.	.	.	.	.	.			
14	.	.	.	.	.	.	.	.			
15	.	.	.	.	.	.	.	.			
16	.	.	.	.	.	.	.	.			
17	.	.	.	.	.	.	.	.			
18	.	.	.	.	.	.	.	.			
19	.	.	.	.	.	.	.	.			
20	.	.	.	.	.	.	.	.			
21	.	.	.	.	.	.	.	.			
22	.	.	.	.	.	.	.	.			
23	.	.	.	.	.	.	.	.			
24	.	.	.	.	.	.	.	.			
25	.	.	.	.	.	.	.	.			
26	.	.	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	.	.	.	.	.	.	.	.			
29	.	.	.	.	.	.	.	.			
30	.	.	.	.	.	.	.	.			
31	.	.	.	.	.	.	.	.			

25.5 26.4 35.6 36.3 37.3 32.7 27.4 26.6

30.9 46.3 21.0

TABLE III-B

55

PRESSURE (700+ MB.)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

LAT 60 20' N ELEVATION 8760 DATE JUNE, 1965  
 LONG 139 55' W

DATE	YUKON STANDARD TIME							MEAN	
	03	06	09	12	15	18	21		24
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29						930	928	917	
30	915	909	902	902	908	905	903	900	905.5
31									
	915	909	902	902	908	918	916	909	

TABLE III-B (cont.)

PRESSURE (700+ MB.)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

LAT	60	20' N	ELEVATION				8760	DATE		JULY, 1965
LONG	139	55' W								
DATE	YUKON STANDARD TIME									
	03	06	09	12	15	18	21	24	MEAN	
1	892	873	865	870	875	875	875	874	874.0	
2	870	867	866	963	863	864	851	850	861.8	
3	840	---	821	820	820	815	814	820	821.4	
4	820	828	833	846	916	853	872	878	856.1	
5	885	892	598	910	916	918	918	928	870.6	
6	928	935	945	961	961	995	975	978	959.8	
7	994	990	990	019	015	005	007	005	001.0	
8	100	999	998	996	993	990	900	902	983.0	
9	976	973	969	970	969	964	963	960	968.0	
10	976	955	950	952	951	---	952	972	948.0	
11	903	---	940	940	945	938	930	935	927.1	
12	903	932	932	932	932	941	924	921	927.1	
13	929	929	934	935	935	908	905	901	922.0	
14	898	884	884	885	882	878	874	872	862.1	
15	870	870	884	886	905	903	910	914	892.8	
16	924	924	930	934	934	933	923	920	927.8	
17	791	922	893	895	893	889	865	852	875.0	
18	850	852	825	843	842	889	889	833	852.9	
19	833	824	822	832	841	862	852	831	839.6	
20	864	863	865	866	867	862	865	960	876.5	
21	832	836	834	840	851	852	876	862	847.9	
22	923	916	927	940	947	950	953	950	935.2	
23	850	938	910	898	893	901	901	892	897.9	
24	880	866	866	867	880	880	867	859	870.6	
25	850	831	830	832	835	832	830	842	835.3	
26	845	783	840	872	893	890	910	920	869.1	
27	930	934	952	952	972	972	975	983	969.0	
28	931	923	975	978	978	995	951	995	967.0	
29	995	994	995	999	999	---	---	999	997.6	
30	997	987	987	987	986	972	963	961	980.0	
31	958	958	954	954	972	---	968	968	961.7	
	872	905	897	881	887	878	846	883	862.0	

TABLE III-B (con't.)

57

PRESSURE (700+ MB.)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

LAT 60 20' N ELEVATION 8760 DATE AUGUST, 1965  
 LONG 139 55' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	955	971	948	954	951	946	942	935	950.2
2	928	944	913	903	905	902	898	898	911.4
3	892	882	803	---	905	907	908	899	885.1
4	902	922	930	935	938	935	939	936	929.6
5	939	940	945	952	950	954	959	956	949.4
6	955	954	961	962	959	955	955	950	956.4
7	946	---	971	939	935	930	928	920	938.4
8	917	917	919	921	923	925	925	958	925.6
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
	926	933	924		933	932	932	932	

PRECIPITATION  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat.: 60° 45' N  
Long.: 139° 40' W

Elevation: 8,760 feet

Date: June, 1965

YR	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Sum															

Begin Station Record

T

T

T

T

T

T

59

June, 1965  
(con't)

YST	18	21	24	Total
Date	Rain in. mm. Snow in. mm. cm.	Rain in. mm. Snow in. mm. cm.	Rain in. mm. Snow in. mm. cm.	Rain in. mm. Snow in. mm. cm.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
Sum				



TABLE III-C

PRECIPITATION  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 45' N  
Long. : 139° 40' W

Elevation: 8,760 feet

Date: July, 1965

YST	03			06			09			12			15		
Day	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1						T						T			T
2															
3															
4			T			T									
5			T			T						T			T
6			T			T			T						
7															
8															
9															
10															
11															
12									T						
13									T			T			
14															
15															
16															
17															
18															
19									T			T			T
20			T			T									
21			T			T			T			T			T
22															
23									T			T			
24			T												
25															
26															
27			T												
28															
29															
30															
31															
Sum			T			T			T			T			T

TABLE III-C

61

July, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1			T									T
2			T									T
3												
4												
5						T			T			T
6												T
7												
8												
9												
10												
11												
12												T
13												
14												T
15												
16												
17												
18												
19			T			T			T			T
20												T
21			T			T			T			T
22												
23									T			T
24												T
25												
26			T			T			T			T
27												T
28												
29												
30												
31												
Sum			T			T			T			T

TABLE III-C

PRECIPITATION  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 45' N  
Long.: 139° 40' W

Elevation: 8,760 feet

Date: August, 1965

YST	03			06			09			12			15		
Date	Rain		Snow	Rain		Snow	Rain		Snow	Rain		Snow	Rain		Snow
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3			T												
4															
5															
6															
7															
8															
9			T												
10				End Station Record											
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
Sum			T												
Summer Total			T			T			T			T			T

4 June-8 August

TABLE III-C

63

August, 1965  
(con't)

YST	19			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2			T			T			T			T
3												T
4												
5												
6												
7												
8												
9			T			T			T			T
10						End	Station Record					
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Sum			T			T			T			T
Summer Total			T			T			T			T

4 June-8 August

LAT 60 44' N  
LONG 130 08' W

ELEVATION 8760

DATE JUNE, 1965

[illegible]

WIND DIRECTION (36-PT. COMPASS), 200 CM.  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 44' N ELEVATION 8760 DATE JULY, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME						MEAN	
	03	06	09	12	15	18		
1	23	09	12	18	18	23	C	27
2	27	C	18	18	18	18	18	18
3	17	C	16	16	16	17	16	17
4	19	18	27	23	27	26	26	26
5	26	26	C	C	C	C	16	09
6	11	09	09	08	08	10	01	01
7	10	C	08	C	21	21	18	21
8	27	24	28	27	27	27	27	27
9	27	26	19	27	24	21	21	13
10	13	12	10	11	C	C	21	14
11	C	C	C	C	C	10	C	14
12	C	C	16	16	18	18	18	18
13	18	27	27	09	16	C	C	16
14	17	C	18	17	21	25	27	27
15	27	27	C	C	27	27	27	27
16	C	09	11	17	27	26	27	27
17	27	27	23	22	26	26	26	27
18	27	C	10	C	26	26	26	C
19	18	09	10	10	10	09	09	09
20	09	C	C	17	29	90	18	18
21	18	17	17	17	17	17	17	27
22	25	C	C	C	C	24	C	27
23	27	09	10	10	17	18	07	18
24	17	27	27	23	17	25	26	26
25	C	C	12	09	09	09	07	06
26	45	45	40	05	05	05	05	08
27	09	09	09	09	17	15	16	17
28	20	20	C	C	C	16	05	24
29	20	C	C	C	36	15	13	12
30	14	11	11	11	11	14	11	25
31	24	21	21	C	18	C	17	15

LAT 60 44' N  
LONG 139 08' W

ELEVATION 8760

DATE AUGUST, 1965

[illegible]

TABLE III-E

67

WIND VELOCITY (MPH), 200 CM.  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	45' N	ELEVATION	8760	DATE	JUNE, 1965			
LONG	139	40' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4							06	10	
5	10	05	10	05	10	04	01	03	6.0
6	10	15	10	10	15	15	10	15	12.5
7	15	05	05	10	05	07	07	10	8.0
8	12	10	10	15	10	15	12	01	10.6
9	10	05	15	20	15	07	08	03	10.4
10	02	10	10	15	10	10	10	10	9.6
11	05	15	15	15	15	20	05	15	13.1
12	05	15	10	10	05	05	05	10	8.1
13	10	05	01	01	05	10	10	00	5.3
14	00	01	02	02	00	00	00	00	.6
15	00	00	05	05	10	15	15	10	7.5
16	15	15	15	20	35	25	20	20	20.6
17	20	05	10	05	20	15	10	10	12.9
18	10	10	10	10	10	10	02	05	8.4
19	06	03	03	06	04	04	04	04	4.3
20	04	06	09	06	06	03	03	03	4.6
21	03	03	04	03	03	03	00	03	2.8
22	03	03	05	09	09	09	00	06	5.5
23	11	10	09	09	04	03	03	03	6.5
24	03	04	03	06	06	06	06	08	5.3
25	04	04	04	02	01	00	01	00	2.0
26	00	00	04	09	03	03	04	00	2.9
27	00	03	00	00	03	00	02	03	1.4
28	00	03	01	02	03	03	04	04	2.5
29	09	04	04	04	09	01	13	13	7.1
30	10	07	10	10	05	03	10	02	7.1
31									
	6.9	6.6	7.4	8.3	8.7	7.5	6.3	6.2	7.2



TABLE III-E (con't.)

WIND VELOCITY (MPH), 200 CM.  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	45' N	ELEVATION	8760	DATE	JULY, 1965			
LONG	139	40' W							
DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	10	05	08	15	15	02	00	05	7.5
2	05	00	05	06	08	48	00	15	5.5
3	04		04	05	04	02	15	10	4.9
4	02	02	05	05	04	07	00	04	3.6
5	03	02	00	00	00	00	10	10	3.1
6	06	08	10	09	07	04	09	04	7.1
7	03	00	05	00	02	02	01	01	1.8
8	02	02	02	05	08	04	04	05	4.0
9	08	05	02	03	03	03	03	02	3.6
10	06	05	04	04	00	00	02	02	3.0
11	00	00	00			04	00	02	.8
12	00	00	04	03	04	06	08	05	3.1
13	10	01	05	03	02	00	00	05	3.3
14	03	00	01	01	02	03	10	10	3.8
15	08	04	00	00	02	03	02	05	3.0
16	00	05	03	02	03	08	05	08	4.3
17	09	05	03	02	10	04	07	07	5.9
18	05	00	02	00	02	04	04	00	2.1
19	02	10	10	10	10	10	10	10	8.6
20	05	00	00	05	08	10	05	13	5.8
21	15	15	15	18	12	10	06	01	11.5
22	02	00	00	00	00	01	00	08	1.4
23	02	05	09	10	10	07	12	10	8.1
24	08	08	03	05	14	11	07	05	7.6
25	00	00	04	04	10	10	20	22	8.8
26	11	20	25	22	23	16	16	15	18.5
27	08	03	03	07	03	06	07	06	4.2
28	04	04	00	00	00	02	02	03	1.6
29	06	00	00	00	01	01	04	04	2.0
30	03	05	07	01	07	07	02	07	4.9
31	18	17	17	00	06	00	07	08	9.1
	5.4	4.5	5.0	4.7	5.8	6.1	6.1	6.8	5.6

TABLE III-E (con't.)

69

WIND VELOCITY (MPH), 200 CM.  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 45' N  
LONG 139 40' W

ELEVATION 8760

DATE AUGUST, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	00	00	00			6	05	09	1.9
2	05	04	10	13	14	11	15	13	10.6
3	12	16	10	--	10	04	05	07	9.1
4	05	06	05	03	10	10	04	08	6.4
5	08	08	05	05	12	10	10	05	7.9
6	06	04	00	05	01	01	07	10	4.3
7	08	00	05	03	06	05	05	06	5.5
8	05	05	04	05	05	08	06	08	5.8
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
	7.0	6.1	4.9	4.3	7.3	6.9	6.5	7.1	6.3

TABLE III-F

RELATIVE HUMIDITY (PERCENTAGE)  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	43' N	ELEVATION			8760	DATE		JUNE, 1965
LONG	139	08' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4							085	089	
5	082	081	085	076	070	068	075	066	75.4
6	084	086	087		097	093	098	098	
7	093	097	087	098	094	083	072	063	85.9
8	032	050	039	068	055	042	049	055	48.8
9	084	078	082	090	078	083	080	076	81.4
10	088	091	092		081	077	075	085	
11	083	089	096	098	079	073	085	087	86.3
12	085	088	092	091	092	083	085	076	86.6
13	082	087	089	049	092	092	089	091	83.9
14	084	086	088	085	089	087	096	077	86.5
15	097	089	078	088	084	095	094	086	88.9
16	087	093	096	087		079	078	092	
17		083	082	086	081	083	091	070	
18	080	091	093	087	093	091	090	070	86.9
19	064	062	100	100	094	080	086	090	84.5
20	088	090	084	090	085	094	090	088	88.6
21	086	092	087	076	088	089	090	088	87.0
22	085	085	074	086	080	089	085	087	83.9
23	083	098	088	084	087				
24			088	098	096	094	087	095	
25	095	098	098	076	083	099	091	093	91.6
26	095	091	095	093	086	093	082	079	89.4
27	080	079	050	064	086	075	074	072	72.5
28	093	093	072	090	097	069	096	075	85.6
29	080	070	087	080	066	096	096	077	81.5
30	097	097	096	097	098	091	098	087	95.1
31									
	84	85	85	85	85	84	85	81	83.4

TABLE III-F (con't.)

71

RELATIVE HUMIDITY (PERCENTAGE)  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 43' N  
LONG 139 08' W

ELEVATION 8760

DATE JULY, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	096	095	097	095	097	090	083	093	93.2
2	096	097	085	088	094	090	090	085	90.6
3	096	---	086	088	088	085	085	090	88.3
4	094	085	083	079	074	100	093	095	87.5
5	094	085	096	084	090	099	095	100	92.9
6	098	094	090	091	083	090	084	085	89.4
7	087	090	092	067	066	060	086	089	79.6
8	070	084	085	079	062	078	075	085	77.3
9	082	083	079	068	073	089	060	074	76.0
10	098	086	088	089	080	093	082	085	87.5
11	087	085	092	064	081	085	084	091	83.7
12	087	084	097	090	100	100	090	098	92.2
13	092	063	077	100	094	100	094	096	91.0
14	096	100	087	087	087	091	098	098	93.0
15	098	100	100	068	100	090	098	095	93.6
16	097	096	100	056	065	091	088	098	86.4
17	098	097	076	083	090	089	088	097	89.8
18	096	098	085	078	085	089	089	100	90.0
19	086	085	100	090	90	100	098	097	95.4
20	098	098	094	094	100	100	095	098	97.1
21	093	096	097	100	097	097	095	096	96.4
22	097	069	082	100	090	088	097	097	90.0
23	068	090	098	100	090	096	087	097	90.8
24	094	095	092	075	070	094	092	089	87.8
25	045	060	090	090	080	070	070	077	80.1
26	088	078	075	083	090	090	097	100	87.6
27	100	100	090	090	083	063	060	072	82.3
28	088	088	060	070	060	084	084	100	79.2
29	100	082	058	082	066	087	092	092	82.4
30	090	083	071	100	100	100	100	100	93.0
31	081	084	072	070	084	100	068	070	81.1
	91	88	87	84	84	89	87	91	88.6

TABLE III-F (con't.)

RELATIVE HUMIDITY (PERCENTAGE)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

LAT 60 43' N ELEVATION 8760 DATE AUGUST, 1965  
 LONG 139 08' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	073	060	065	088	066	085	082	087	76.0
2	100	094	100	083	100	091	100	100	96.0
3	100	100	090	068	060	074	071	076	79.9
4	059	047	044	042	---	049	056	063	51.4
5	065	053	061	060	060	071	066	083	66.1
6	070	069	060	068	073	071	069	094	71.8
7	096	---	086	086	077	079	085	084	85.0
8	082	071	077	071	057	062	071	060	68.9
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
	82	72	73	71	71	73	75	81	74.6

TABLE III-G

73

LOUDINESS (TENTHS OF SKY DOME)  
DIVIDE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 45' N  
Long.: 139° 40' W

Elevation: 8,760 feet

Date: June, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1											
2											
3											
4											
5	10	5	8	0	4	4	9	9	6.1		
6	9	5	10	9	10	10	10	10	9.1		
7	9	10	6	10	10	8	8	7	8.5		
8	6	4	2	2	3	6	6	9	4.8		
9	4	2	8	9	10	8	9	3	6.6		
10	4	2	1	1	7	9	10	10	5.5		
11	10	10	10	10	10	7	10	10	9.6		
12	10	9	9	9	5	8	10	7	8.4		
13	10	9	8	10	9	8	10	10	9.3		
14	7	7	1	1	3	4	5	10	4.8		
15	2	4	8	9	10	10	10	9	7.8		
16	10	10	fog	fog	fog	fog	fog	fog	10.0		
17	fog	fog	fog	fog	10	8	10	10	9.8		
18	2	fog	6	4	3	2	3	3	4.1		
19	5	10	fog	fog	fog	9	9	10	9.1		
20	3	6	6	9	7	4	1	5	5.1		
21	1	1	0	5	3	1	1	1	1.6		
22	1	1	3	6	2	8	9	10	5.0		
23	5	9	7	5	7	10	8	10	7.6		
24	9	fog	10	10	10	fog	fog	fog	9.9		
25	10	10	10	8	4	WO	9	8	8.6		
26	-	7	10	8	6	2	1	2	---		
27	4	5	3	6	3	0	1	1	2.9		
28	0	0	6	6	1	0	3	1	2.1		
29	1	2	4	10	9	10	10	10	7.0		
30	10	10	9	10	6	10	10	10	9.4		
31											
Mean	6.1	6.5	6.7	7.2	6.6	6.8	7.4	7.5	6.9		

TABLE III-G (con't.)

CLOUDINESS (TENTHS OF SKY DOME)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 60° 45' N

Long.: 139° 40' W

Elevation: 8,760 feet

Date: July, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	10	10	10	7	10	7	9	10	9.1		
2	9	10	7	6	10	10	9	10	8.9		
3	10	-	6	10	5	8	10	10	---		
4	10	10	10	10	10	10	8	fog	9.8		
5	WO	9	10	10	10	10	10	10	9.9		
6	10	10	10	6	3	1	2	4	5.8		
7	2	2	0	2	7	8	6	2	3.6		
8	1	2	3	5	3	3	4	2	2.9		
9	2	2	0	0	0	3	3	9	2.4		
10	7	5	3	3	4	6	4	1	4.1		
11	1	-	10	9	5	7	10	9	---		
12	7	9	10	9	10	10	10	9	9.3		
13	10	7	7	10	10	10	9	10	9.1		
14	8	10	fog	fog	9	10	10	10	9.7		
15	10	10	7	8	4	2	10	5	7.0		
16	10	2	1	1	1	0	0	0	1.9		
17	10	8	-	1	4	5	2	5	---		
18	fog	5	4	4	5	6	5	-	---		
19	6	8	10	10	7	10	10	10	8.9		
20	10	10	10	10	10	10	10	10	10.0		
21	10	10	10	10	10	10	8	7	9.4		
22	fog	0	0	1	1	10	10	fog	5.3		
23	6	10	10	10	10	3	3	-	---		
24	-	10	10	10	10	10	10	-	---		
25	10	3	7	4	4	7	8	fog	6.6		
26	8	10	7	7	8	10	10	9	8.6		
27	10	5	1	0	0	1	1	3	2.6		
28	0	4	3	3	-	9	10	-	---		
29	3	3	2	3	7	5	7	-	---		
30	8	3	4	8	-	fog	10	10	---		
31	9	6	7	1	3	5	8	0	4.8		
Mean	7.6	6.7	6.3	6.1	6.0	7.0	7.4	7.1	6.8		

TABLE III G (con't.)

75

CLOUDINESS (TENTHS OF SKY DOME)  
 DIVIDE STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 60° 45' N  
 Long.: 139° 40' W

Elevation: 8,760 feet

Date: August, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	2	-	-	-	2	1	8	4	---		
2	fog	5	fog	10	fog	10	10	9	9.3		
3	9	6	10	-	4	4	2	2	---		
4	3	9	8	8	9	8	2	2	6.1		
5	2	6	6	8	6	6	1	1	4.5		
6	2	2	4	4	9	10	9	4	5.5		
7	2	-	8	5	4	6	8	4	---		
8	2	6	7	2	1	1	1	0	2.5		
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
Mean	4.0	5.7	7.6	6.2	5.6	5.8	5.1	3.3	4.3		



TABLE IV-A

SHELTER AIR TEMPERATURE (DEGREES F.)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 61 02' N  
LONG 138 25' W

ELEVATION 5800

DATE MAY, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	.	.	.	.	.	.	.	.			
2	.	.	.	.	.	.	.	.			
3	.	.	.	.	.	.	.	.			
4	.	.	.	.	.	.	.	.			
5	.	.	.	.	.	.	.	.			
6	.	.	.	.	.	.	.	.			
7	.	.	.	.	.	.	.	.			
8	.	.	.	.	.	.	.	.			
9	.	.	.	.	.	.	.	.			
10	.	.	.	.	.	.	.	.			
11	.	.	.	.	.	.	.	.			
12	.	.	.	.	.	.	.	.			
13	.	.	.	.	.	.	.	.			
14	.	.	.	.	.	.	.	.			
15	.	.	.	.	.	.	.	.			
16	.	.	.	.	.	.	.	.			
17	.	.	.	.	.	.	.	.			
18	.	.	.	.	.	.	.	.			
19	.	.	.	.	.	.	.	.			
20	.	.	.	.	.	.	.	.			
21	.	.	.	.	.	.	.	.			
22	.	.	.	.	.	.	.	.			
23	.	.	.	.	.	.	.	.			
24	.	.	.	.	.	.	.	.			
25	.	.	.	.	.	.	.	.			
26	.	.	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	28.1	30.0	40.5	38.0	39.0	37.8	35.1	32.1	35.1	40.0	26.0
29	32.5	35.0	39.5	41.0	40.0	41.1	35.9	34.1	37.4	44.0	27.0
30	29.8	35.5	41.0	43.0	41.5	39.5	39.7	38.8	38.6	43.0	26.0
31	36.8	37.0	36.5	38.0	36.0	34.5	31.5	30.2	35.1	38.0	28.0
	33.0	34.4	39.4	40.0	39.1	38.2	35.5	33.8	36.7	42.3	27.0

TABLE IV-A (con't.)

77

SHELTER AIR TEMPERATURE (DEGREES F.)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 61 02' N  
LONG 138 25' W

ELEVATION 5800

DATE JUNE, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	29.2	27.5	31.2	32.3	34.5	30.5	27.5	24.8	33.8	34.0	23.0
2	26.8	30.5	34.5	35.2	34.0	32.5	28.5	27.0	31.1	36.0	24.0
3	28.4	31.0	31.8	34.0	34.0	32.0	29.0	27.9	31.1	34.0	29.0
4	30.0	27.9	30.8	34.0	32.8	30.3	29.5	26.0	30.2	34.5	26.0
5	29.0	25.5	32.5	.	31.8	34.0	28.0	30.0	30.4	34.0	22.0
6	30.0	37.5	34.5	34.2	38.5	44.0	41.0	41.0	37.6	46.0	30.0
7	41.0	41.5	42.8	45.0	45.4	40.0	40.0	40.0	42.0	47.0	39.0
8	36.5	37.2	45.3	46.7	45.8	45.0	40.0	36.5	41.6	48.0	32.0
9	34.0	34.2	36.2	34.4	33.5	31.0	28.0	26.5	32.2	36.0	25.0
10	27.0	25.0	31.5	34.8	36.0	35.0	35.4	33.1	32.2	36.0	25.0
11	30.5	31.0	35.5	35.0	36.0	34.2	32.5	30.0	33.2	36.0	26.0
12	29.5	30.0	32.0	31.0	31.0	30.9	28.1	27.0	30.0	32.0	26.0
13	25.5	27.0	32.0	34.6	34.0	35.0	29.7	28.0	30.7	34.0	24.0
14	27.0	30.8	31.1	34.7	36.1	33.0	31.0	25.8	31.2	35.0	26.0
15	29.0	27.6	32.1	34.4	36.0	36.0	33.5	31.0	32.4	36.0	25.0
16	30.3	32.2	29.3	34.5	31.0	29.2	28.0	27.4	30.2	35.0	27.0
17	28.0	29.4	31.0	31.1	30.9	29.5	25.9	23.0	28.6	31.0	22.0
18	19.8	24.0	29.5	31.6	31.2	29.3	28.1	25.0	27.1	32.0	18.0
19	19.5	24.5	27.2	26.9	30.0	31.2	27.4	25.0	26.4	32.0	19.0
20	25.0	24.0	27.5	30.7	32.4	29.4	27.3	19.1	26.9	32.0	19.0
21	17.1	21.7	28.7	30.7	30.9	31.1	26.6	20.0	25.8	32.0	16.0
22	17.3	21.2	33.0	37.2	37.0	37.4	36.5	31.8	31.4	39.0	14.0
23	30.7	33.2	34.7	37.2	40.3	33.7	32.5	30.7	34.1	39.0	31.0
24	32.8	36.6	37.0	35.8	36.0	33.6	32.0	30.8	34.3	37.0	30.0
25	30.0	35.0	41.8	41.5	38.0	35.0	31.4	31.4	35.5	43.0	30.0
26	31.9	34.0	34.1	38.2	39.2	37.7	35.1	29.3	34.9	40.0	20.0
27	28.2	34.3	38.7	39.2	38.7	40.0	35.1	28.0	35.3	41.0	26.0
28	23.4	31.4	38.0	41.1	43.1	39.2	39.9	35.1	36.4	42.0	23.0
29	29.8	38.0	41.1	41.8	38.0	37.4	37.7	35.8	37.4	43.0	27.0
30	39.6	38.0	43.4	43.9	45.0	42.0	41.2	37.1	41.3	46.0	35.0
31	.	.	.	.	.	.	.	.			
	28.6	30.7	34.2	35.8	37.4	34.7	32.2	29.5	32.8	37.2	25.3

TABLE IV-A (con't.)

SHELTER AIR TEMPERATURE (DEGREES F.)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 61 02' N  
LONG 138 25' W

ELEVATION 5800

DATE JULY, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	35.9	.	36.4	42.0	42.8	40.4	36.3	35.2	38.4	43.0	33.0
2	32.0	36.9	39.4	39.8	38.3	35.4	39.5	35.9	37.1	41.0	32.0
3	37.9	38.8	39.8	39.7	40.9	36.3	32.5	30.5	37.0	41.0	31.0
4	32.1	.	34.6	35.3	35.1	34.7	31.8	31.5	33.6	36.0	31.0
5	30.7	32.0	35.2	36.2	36.1	36.2	32.6	34.0	34.1	38.0	30.0
6	34.3	35.9	36.8	43.1	42.2	42.4	37.5	33.8	38.2	44.0	31.0
7	29.6	36.1	39.7	41.0	44.9	46.5	35.0	35.0	38.5	47.0	28.0
8	33.0	41.9	44.7	48.9	53.7	55.8	48.9	35.5	45.3	56.0	32.0
9	35.1	38.7	45.7	48.8	48.9	49.0	39.0	36.8	42.7	52.0	36.0
10	42.0	39.9	45.6	44.0	45.4	45.0	38.9	34.2	41.9	47.0	34.0
11	37.6	38.6	42.3	43.9	48.7	45.4	39.9	37.4	41.7	51.0	33.0
12	40.1	41.7	44.1	44.2	46.1	43.1	43.2	40.5	42.9	47.0	33.0
13	39.1	41.9	44.6	44.6	45.2	43.7	42.1	38.2	42.4	46.0	37.0
14	38.7	39.2	42.4	41.9	44.3	41.4	37.9	37.9	40.5	43.0	34.0
15	36.0	36.9	37.2	38.8	39.5	37.9	34.7	33.3	36.8	40.0	33.0
16	32.7	34.0	40.1	42.0	45.3	46.5	40.3	34.9	39.5	45.5	31.4
17	34.5	39.2	42.0	44.3	46.8	45.5	38.2	34.0	40.6	47.0	34.0
18	36.8	37.1	41.1	42.2	38.4	38.6	37.1	33.5	38.1	43.0	33.0
19	29.0	34.0	36.5	34.7	39.3	38.8	36.0	33.5	35.2	38.0	29.0
20	35.0	36.0	43.5	47.0	44.7	40.9	41.2	39.8	41.0	48.0	34.0
21	38.0	38.3	38.1	39.9	39.0	37.1	34.2	32.3	37.1	40.0	29.0
22	33.2	32.4	38.3	37.7	36.8	35.3	35.5	33.9	35.4	39.0	32.0
23	34.3	32.4	35.5	34.0	36.5	38.9	36.3	33.1	35.1	39.0	31.0
24	32.0	30.7	33.2	34.8	33.1	34.0	32.7	28.9	32.4	35.0	29.0
25	29.0	28.2	34.2	36.3	36.1	36.0	35.1	.			
26	.	.	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	.	.	.	.	.	.	.	.			
29	.	.	.	.	.	.	.	.			
30	.	.	.	.	.	.	.	.			
31	.	.	.	.	.	.	.	.			
	34.7	36.6	39.8	41.0	41.9	41.0	37.5	34.7	38.7	38.2	43.6

TABLE IV-B

79

PRESSURE (800+ MB.)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	20' N	ELEVATION			5800	DATE	MAY, 1965	
LONG	139	55' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28		232	238	240	244	248	250	259	
29	255	249	245	242	238	232	230	225	239.5
30	222	223	214	213	210	204	192	182	207.5
31	167	133	115	101	108	118	137	154	129.1
	215	209	203	199	200	201	202	205	

TABLE IV-B (con't.)

PRESSURE (800+ MB.)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 20' N ELEVATION 5800 DATE JUNE, 1965  
LONG 139 55' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	162	161	158	152	148	135	132	128	147.0
2	126	140	153	170	186	202	213	224	176.8
3	218	203	217	219	225	233	238	206	222.9
4	222	206	188	183	178	188	205	225	199.3
5	205	258	272	278	284	295	280	270	267.8
6	263	254	249	243	236	225	215	213	237.3
7	208	191	186	188	183	177	173	172	184.8
8	172	167	161	168	168	163	161	161	165.1
9	164	169	178	194	203	213	222	228	196.4
10	230	223	221	213	204	185	172	163	201.4
11	149	144	135	128	135	136	142	168	140.0
12	155	168	170	177	182	182	183	180	174.6
13	176	182	178	175	175	174	178	186	178.0
14	187	192	194	199	203	208	212	216	201.4
15	218	217	220	222	223	222	222	219	220.4
16	204	177	158	145	144	163	175	180	168.3
17	186	196	205	214	219	224	227	228	212.4
18	228	231	233	234	239	250	246	241	237.7
19	212	167	148	132	108				
20		126	142	152	171	179	184	192	163.7
21	197	206	216	226	235	227	230	232	221.1
22	232	232	223	227	228	197	188	186	214.1
23	174	163	152	153	153	163	173	180	163.9
24	182	197	204	215	218	224	224	230	211.8
25	229	229	231	231	230	230	236	236	231.5
26	236	238	239	241	239	242	250	256	242.6
27	565	575	581	590	593	593	594	598	586.1
28	593	590	588	588	590	591	598	607	593.1
29	614	610	610	608	598	586	580	567	596.6
30	568	560	554	556	556	555	555	555	557.4
31									

254 252 249 246 248 254 257 258

PRESSURE (800+ MB.)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 20' N  
LONG 139 55' W

ELEVATION 5800

DATE JULY, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1			523	522	524	528	539	540	
2	533	533	530	532	522	521	511	507	523.6
3	498	489	480	481	479	473	480	489	483.6
4	488		505	518	522	533	540	548	522.0
5	553	560	557	574	578	584	586	584	572.0
6	593	603	610	624	631	629	644	650	623.0
7	655	660	661	660	656	651	655	655	656.6
8		649	646	640	635	629	626	628	636.1
9	625	617	613	610	606	596	597	596	607.5
10	596	596	597	597	594	585	589	590	593.0
11	586	585	585	583	579	572	572	572	579.3
12	571	571	572	571	570	569	564	564	569.0
13	562	560	560	560	559	550	548	545	543.0
14	538	534	531	531	530	530	529	530	531.6
15	530	534	537	544	549	554	564	572	548.0
16	577	577	586	585	581	572	570	567	576.9
17	563	555	549	542	540	534	530	525	542.3
18	520	512	505	499	495	493	494	494	501.5
19	494	492	492	497	498	505	513	519	501.3
20	521	522	518	515	520	513	504	498	513.9
21	499	495	499	510	520	570	507	554	519.3
22	565	580	597	605	610	613	621	617	601.0
23	615	601	584	574	562	549	549	548	572.8
24	544	543	544	544	547	543	541	535	542.6
25	529	521	520	512	507	507	507		514.7
26									
27									
28									
29									
30									
31									
	557	560	556	557	557	556	555	559	557.0

TABLE IV-C

PRECIPITATION  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 44' N  
Long.: 139° 08' W

Elevation: c. 5,800 feet

Date: May, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28							Begin Station Record								
29															
30															
31						T			T			T			T
Sum						T			T			T			T

TABLE IV-C

83

May, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31			T			T						T
Sum			T			T						T

Begin Station Record



TABLE IV-C (con't.)

PRECIPITATION  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 44' N  
Long.: 139° 08' W

Elevation: c. 5,800 feet

Date: June, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2						T									
3						T			T			T			T
4												0.1			
5															
6															
7															
8															
9															
10															
11			T			T						T			
12						T									
13			T			T			T			T			
14						0.1									
15															
16									0.1			0.1			
17															T
18															
19												0.1			T
20															
21															
22															
23						T			T						
24			T			T									
25			T			T			T			T			
26			T												
27															
28															
29															
30												T			T
31															
Sum			T			0.1			0.1			0.3			T

TABLE IV-C

85

June, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3												T
4									T			T
5												0.1
6												
7												
8												
9												
10												
11												T
12									T			T
13									T			T
14												0.1
15												
16												0.2
17												T
18												
19			T									0.1
20												
21												
22												
23									T			0.1
24									T			T
25									T			T
26												T
27												
28												
29												
30												T
31												
Sum			T			T			0.1			0.6

PRECIPITATION  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 44' N

Long.: 139° 08' W

Elevation: c. 5,800 feet

Date: July, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5			T			0.1			T						T
6	T	T		0.1	2.5		T	1.3		T	0.2				
7															
8															
9															
10															
11															
12										T	T				
13															
14										T	T				
15															
16															
17															
18															
19							T	T		0.1	2.5		0.1	1.5	
20	T	T		T	T										
21															
22															
23												T			0.1
24			T			T									
25							End Station Record								
26															
27															
28															
29															
30															
31															
Sum	T	T	T	0.1	2.5	0.1	T	1.3	T	0.1	2.7	T	0.1	1.5	0.1
Summer Total	T	T	T	0.1	2.5	0.2	T	1.3	0.1	0.1	2.7	0.3	0.1	1.5	0.1

28 May-25 July

TABLE IV-C

67

July, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3			T									T
4												T
5			T			0.3			T			0.4
6										0.1		4.0
7												
8												
9												
10												
11	T	T								T		T
12										T		T
13	T	T								T		T
14										T		T
15												
16												
17												
18												
19	T	0.8		T	T		T	T		0.2		4.8
20	T	T		T	T		T	T		T		T
21												
22												
23			T									0.1
24												T
25												
26												
27												
28												
29												
30												
31												
Sum	T	0.8	T	T	T	0.3	T	T	T	0.3	8.8	0.5
Summer Total	T	0.8	T	T	T	0.3	T	T	0.1	0.3	8.8	1.1

28 May-25 July

**TABLE IV-D**

WIND DIRECTION (36-PT. COMPASS), 200 CM.  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	44' N
LONG	139	08' W
ELEVATION	5800	DATE MAY, 1965
DATE	03	06
YUKON STANDARD TIME	09	12
	15	18
	21	24
MEAN		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	C	C
29	C	C
30	C	03
31	23	23

TABLE IV-D (con't.)

89

WIND DIRECTION (36-PT. COMPASS), 200 CM.  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 44' N ELEVATION 5800 DATE JUNE, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME							
	03	06	09	12	15	18	21	24
1	16	23	23	23	23	23	23	23
2	23	23	23	23	23	23	23	23
3	23	31	31	31	31	31	27	23
4	25	23	23	C	31	23	23	23
5	23	23	23	23	23	23	23	23
6	23	23	23	23	23	23	23	23
7	23	23	23	23	23	23	23	23
8	23	C	23	23	23	23	23	23
9	23	23	23	23	23	25	27	27
10	27	25	25	27	09	02	23	06
11	31	31	03	31	03	25	23	25
12	25	25	25	25	25	26	25	24
13	23	C	C	24	23	25	23	C
14	C	C	23	06	25	25	25	C
15	23	20	24	23	25	27	25	23
16	23	C	34	26	26	26	31	27
17	31	29	28	25	27	26	25	25
18	25	24	24	24	24	22	23	10
19	C	C	24	32	10	30	24	24
20	24	21	21	23	25	23	28	25
21	24	22	03	23	23	24	28	27
22	C	C	02	C	01	36	32	C
23	C	C	02	05	35	22	06	C
24	24	24	25	24	24	22	23	27
25	29	C	C	C	C	24	25	24
26	C		01	35	23	24	24	22
27	20	C	22	24	23	24	23	23
28	26	C	20	21	23	25	25	22
29	09	29	24	22	23	23	23	36
30	29	35	22	28	26	26	28	20



TABLE IV-E

91

WIND VELOCITY (MPH), 200 CM.  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	45' N	ELEVATION	5800	DATE	MAY, 1965			
LONG	139	40' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28		00	00	11	12	14	09	00	
29	00	00	03	12	13	13	10	07	7.3
30	00	05	15	16	16	14	17	18	12.6
31	14	15	22	22	22	22	18	14	18.6
	4.7	5.0	10.0	15.3	15.8	15.8	13.5	9.8	11.2



TABLE IV-E (con't.)

WIND VELOCITY (MPH), 200 CM.  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 45' N LONG 139 40' W			ELEVATION 5800		DATE JUNE, 1965				
DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	16	13	13	18	16	15	12	03	13.2
2	03	02	06	15	17	16	20	16	11.9
3	18	29	36	17	17	17	09	07	19.9
4	15	07	05	00	16	14	14	18	11.1
5	11	04	10	00	13	09	08	13	9.0
6	17	10	18	22	13	07	11	14	14.0
7	14	10	14	20	20	18	11	14	15.1
8	12	00	10	10	09	13	16	13	10.4
9	00	14	19	22	20	15	16	11	15.8
10	00	08	01	03	07	02	09	03	5.3
11	03	04	04	07	08	07	16	10	7.6
12	14	10	18	17	23	16	15	10	15.4
13	07	00	00	03	12	11	07	00	5.0
14	00	00	03	06	13	09	09	00	5.0
15	07	05	11	12	14	16	14	09	11.0
16	04	00	01	08	20	21	12	18	10.5
17	15	14	11	16	19	17	19	15	15.8
18	13	09	12	18	18	16	04	02	11.5
19	00	01	02	03	02	08	18	13	5.9
20	16	11	13	16	16	15	18	01	13.3
21	01	03	03	08	16	14	03	01	6.1
22	00	00	06	00	03	07	06	00	2.8
23	00	00	06	09	07	05	07	00	4.3
24	02	10	12	20	18	18	14	06	12.5
25	01	00	00	00	00	9	09	01	2.5
26	00	00	05	06	10	15	06	08	6.3
27	13	00	10	11	14	13	10	06	9.6
28	06	00	08	11	15	15	12	06	9.1
29	04	10	15	12	15	20	20	10	13.3
30	06	05	17	20	19	10	08	10	11.9
31									
	7.9	6.0	9.6	11.4	13.7	12.9	11.8	7.9	10.2

TABLE IV-E (con't.)

93

WIND VELOCITY (MPH), 200 CM.  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 45' N  
LONG 139 40' W

ELEVATION 5800

DATE JULY, 1965

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	04	00	13	19	20	12	18	12	14.0
2	10	09	15	18	26	24	12	03	14.6
3	08	04	13	20	20	25	21	23	16.8
4	19		22	24	23	16	18	14	
5	07	00	03	07	00	01	00	03	2.6
6	00	00	03	04	04	07	02	00	2.5
7	00	01	02	06	08	00	03	05	3.1
8	10	03	03	09	13	11	03	03	6.9
9	02	04	07	16	12	02	03	00	5.8
10	07	03	01	03	08	10	00	00	4.0
11	00	00	02	02	15	13	04	03	4.9
12	10	02	08	12	16	17	12	03	10.0
13	04	14	15	15	13	12	03	03	9.9
14	13	03	18	18	15	21	16	10	14.3
15	12	06	13	13	20	17	07	00	11.0
16	00	00	01	10	16	18	14	02	7.6
17	02	03	11	15	19	17	14	02	10.4
18	03	05	05	05	18	05	07	03	6.4
19	02	00	05	00	04	02	00	00	1.6
20	00	05	08	20	20	21	16	10	12.5
21	18	21	17	23	19	06	04	00	13.5
22	08	07	09	17	21	23	18	14	14.6
23	07	13	05	03	10	16	03	09	8.3
24	01	11	15	21	20	15	12	14	13.6
25	05	05	03	07	08	05	04		
26									
27									
28									
29									
30									
31									
	6.1	5.2	8.6	12.3	14.7	12.7	8.6	5.7	9.3

TABLE IV-F

RELATIVE HUMIDITY (PERCENTAGE)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 43' N ELEVATION 5800 DATE MAY, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28		090	070	070	077	084	083	083	79.6
29	090	087	077	074	074	071	084	079	79.5
30	070	073	057	055	059	077	084	085	70.0
31	084	069	077	072	072	083	080	080	77.1
	81	80	70	68	71	79	83	82	76.6

TABLE IV-F (con't.)

95

RELATIVE HUMIDITY (PERCENTAGE)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 43' N ELEVATION 5800 DATE JUNE, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	069	080	070	070	071	080	083	082	75.6
2	077	081	071	072	074	067	074	073	73.6
3	078	081	072	074	074	068	065	078	72.3
4	066	078	080	078	076	075	078	083	76.8
5	078	076	062	078	067	067	060	052	67.5
6	052	057	064	071	078	067	072	075	67.0
7	075	079	073	068	065	068	064	055	68.4
8	053	060	050	052	045	050	052	061	52.9
9	067	068	069	068	075	063	060	078	68.5
10	073	078	068	068	077	077	076	083	75.0
11	100	100	092	092	081	092	083	073	91.3
12	080	073	074	078	078	067	074	078	75.2
13	094	089	086	075	083	075	090	090	85.3
14	094	090	081	092	092	069	071	089	84.8
15	065	073	071	079	076	065	070	072	71.4
16	077	090	095	079	090	085	085	082	85.4
17	084	075	090	086	080	066	072	082	79.4
18	087	082	086	068	071	075	064	064	74.4
19	092	071	073	095	080	071	078	077	79.6
20	077	088	084	076	058	071	059	089	75.3
21	085	075	055	076	081	067	073	073	73.1
22	088	074	067	062	088	065	057	081	72.8
23	090	095	096	100	092	087	095	100	94.4
24	095	081	088	096	092	083	080	095	89.5
25	100	075	052	086	096	083	095	100	85.9
26	100	095	100	096	092	073	071	075	87.8
27	069	079	073	089	089	060	058	069	73.3
28	082	085	077	054	067	063	047	062	67.1
29	056	052	063	063	068	077	077	092	68.5
30	085	085	076	080	073	079	075	084	79.6
31									
	81	79	75	73	78	72	72	79	76.2

TABLE IV-F (con't.)

RELATIVE HUMIDITY (PERCENTAGE)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 43' N ELEVATION 5800 DATE JULY, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1	084		096	072	096	070	080	075	
2	081	073	077	074	088	075	081	096	80.6
3	073	073	071	071	079	070	073	081	73.9
4	077		084	084	076	083	090	086	
5	098	090	092	088	092	096	099	092	93.4
6	100	099	096	082	079	090	081	087	89.3
7	085	092	081	085	087	067	092	087	84.5
8	083	075	080	049	062	048	055	077	66.2
9	092	092	072	062	053	070	085	088	76.8
10	073	086	079	079	073	087	084	092	81.6
11	097	089	082	074	067	067	084	087	80.3
12	081	071	076	087	074	080	072	079	77.5
13	085	079	081	087	084	075	085	084	82.6
14	085	089	086	086	090	075	077	074	82.8
15	080	088	088	085	078	077	083	091	83.8
16	097	098	089	079	077	074	071	095	85.0
17	091	074	077	067	068	070	083	091	77.6
18	079	079	073	081	083	085	073	077	78.8
19	097	100	092	091	096	096	096	098	95.8
20	100	092	071	075	077	082	079	078	82.6
21	084	077	077	078	078	087	079	079	79.9
22	082	078	074	077	077	084	080	079	78.9
23	072	086	083	095	092	077	067	086	72.2
24	095	090	082	071	082	082	081	079	82.8
25	073	083	082	064	087	087	079		
26									
27									
28									
29									
30									
31									
	85	85	82	78	80	78	80	85	81.6

TABLE IV-G

97

CLOUDINESS (TENTHS OF SKY DOME)  
 KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
 YUKON TERRITORY, CANADA

Lat. : 60° 44' N  
 Long.: 139° 08' W

Elevation: c. 5,800 feet

Date: May, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28	4	2	4	3	6	4	8	8	4.9		
29	6	8	1	1	1	0	0	0	2.1		
30	0	0	0	1	1	6	6	6	2.5		
31	7	10	10	5	10	7	5	2	7.0		
Mean	4.2	5.0	3.7	2.5	4.5	4.2	4.7	4.0	4.1		

CLOUDINESS (TENTHS OF SKY DOME)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 44' N

Long.: 139° 08' W

Elevation: c. 5,800 feet

Date: June, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	2	3	10	5	3	2	4	6	4.4		
2	9	8	7	2	1	1	6	5	4.9		
3	3	6	8	6	8	6	5	6	6.0		
4	9	9	10	10	8	6	5	10	8.3		
5	8	0	1	1	1	2	8	5	3.3		
6	6	6	5	9	9	7	9	10	7.6		
7	9	9	7	4	2	7	7	5	6.3		
8	3	3	0	1	2	5	3	5	2.8		
9	3	8	3	7	6	8	4	3	5.3		
10	2	1	1	1	4	5	10	10	4.3		
11	10	10	8	10	8	5	8	2	7.6		
12	4	4	10	6	4	4	9	9	6.3		
13	9	10	8	9	4	9	6	9	8.0		
14	10	7	2	7	8	4	2	7	5.9		
15	1	4	8	9	8	8	3	3	5.5		
16	7	10	10	10	10	9	9	10	9.4		
17	10	2	9	9	6	4	4	2	5.8		
18	3	1	0	2	1	0	1	2	1.3		
19	5	10	10	10	10	8	7	5	9.4		
20	7	5	7	7	3	3	2	8	5.1		
21	0	2	1	7	5	4	2	0	2.6		
22	0	2	3	8	7	9	8	9	5.8		
23	9	10	10	9	5	8	10	10	8.9		
24	9	7	3	3	5	8	10	10	6.9		
25	10	10	10	9	5	8	9	10	8.9		
26	10	10	10	8	4	2	1	2	5.9		
27	4	6	1	2	3	0	1	1	2.3		
28	0	0	5	9	1	0	1	5	2.5		
29	1	2	3	10	8	10	10	10	7.9		
30	10	9	10	10	6	10	9	7	8.9		
31											
Mean	5.8	5.8	6.0	6.7	5.2	5.3	5.8	6.2	5.9		

TABLE IV-G (con't.)

99

CLOUDINESS (TENTHS OF SKY DOME)  
KASKAWULSH STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 44' N

Long.: 139° 08' W

Elevation: c. 5,800 feet

Date: July, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1	10	-	10	7	5	5	7	7	---		
2	9	9	6	8	9	10	6	8	8.1		
3	9	9	10	10	6	9	10	10	9.1		
4	10	-	10	6	8	10	7	10	---		
5	10	9	10	10	9	10	10	10	9.8		
6	10	10	10	8	9	5	6	5	7.9		
7	2	1	1	1	5	6	8	1	3.3		
8	1	1	2	8	6	5	2	1	3.3		
9	2	1	1	1	1	1	4	9	2.5		
10	8	9	4	2	3	3	7	2	4.8		
11	3	9	8	8	8	4	8	9	7.1		
12	3	8	10	10	8	8	5	5	7.5		
13	4	7	3	9	9	7	5	-	---		
14	4	8	9	9	7	4	2	2	5.6		
15	1	9	7	9	3	1	6	6	5.3		
16	7	8	8	2	1	1	0	0	3.4		
17	0	1	1	1	1	1	4	8	2.1		
18	3	5	2	3	6	8	6	9	5.3		
19	8	10	10	10	10	10	10	10	9.8		
20	9	7	8	9	5	8	10	10	8.3		
21	9	6	10	9	8	5	4	3	6.7		
22	5	3	3	5	4	8	8	5	5.1		
23	8	10	10	10	10	8	9	-	---		
24	9	10	9	4	3	5	8	2	6.3		
25	4	5	10	7	6	7	9	-	---		
26											
27											
28											
29											
30											
31											
Mean	6.0	6.5	7.3	7.0	6.0	6.0	5.4	5.7	6.6		



TABLE IV-H

SHELTER AIR TEMPERATURE (DEGREES F.)  
KASKAWULSH ICE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	61	02' N	ELEVATION		5800		DATE		JULY, 1965		
LONG	138	25' W									
YUKON STANDARD TIME											
DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	.	.	.	.	.	.	.	.			
2	.	.	.	.	.	.	.	.			
3	.	.	.	.	.	.	.	.			
4	.	.	.	.	.	.	.	.			
5	.	.	.	.	.	.	.	.			
6	.	.	.	.	.	.	.	.			
7	.	.	.	.	.	.	.	34.5			
8	36.0	42.0	44.0	42.0	44.0	51.0	44.0	00.0		51.0	
9	00.0	00.0	42.0	45.0	47.0	46.0	42.0	38.0		48.0	
10	45.0	40.0	40.5	43.0	44.0	42.0	40.0	38.0	41.6	46.0	37.0
11	38.0	37.0	38.5	40.0	.	43.0	43.0	38.0		48.0	36.0
12	40.0	40.0	40.5	38.0	40.0	38.0	40.0	37.0	39.1	45.0	36.0
13	40.0	38.0	42.0	40.0	38.0	40.0	39.0	37.0	39.3	44.0	37.0
14	38.5	41.0	38.5	38.0	40.0	38.0	36.0	36.0	38.3	44.0	36.0
15	35.5	36.0	36.0	36.0	37.0	36.5	34.5	34.0	35.7	38.0	33.0
16	33.5	36.0	40.0	40.5	41.0	43.5	40.0	37.0	38.9	46.0	32.0
17	38.5	38.0	40.0	40.0	40.0	39.5	37.0	34.5	38.4	44.0	33.0
18	33.0	35.5	42.0	38.5	36.0	38.0	36.0	36.0	36.9	43.0	31.0
19	33.0	35.0	36.0	36.5	38.0	36.0	36.0	35.0	35.7	38.0	31.0
20	35.0	36.0	38.5	41.5	42.5	39.5	40.0	38.5	38.9	43.0	35.0
21	38.0	38.5	38.0	37.5	38.0	36.5					
22	.	.	.	.	.	35.5	35.0	34.0			
23	33.0	33.5	36.0	38.0	36.5	37.5	34.0	34.0	35.3	40.0	32.0
24	22.5	31.5	34.0	33.5	34.0	34.5	32.5	29.0	32.7	35.0	29.0
25	29.5	28.0	38.0	39.0	36.0	36.5	37.0	35.0	34.9	39.0	28.0
26	37.5	33.5	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	.	.	.	.	.	.	.	.			
29	.	.	.	.	.	.	.	.			
30	.	.	.	.	.	.	.	.			
31	.	.	.	.	.	.	.	.			
	36.2	36.4	39.1	39.2	39.5	39.5	38.0	35.6			

TABLE IV-I

101

RELATIVE HUMIDITY (PERCENTAGE)  
KASKAWULSH ICE STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 43' N ELEVATION 5800 DATE JULY, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME							MEAN
	03	06	09	12	15	18	21	
1								
2								
3								
4								
5								
6								
7							080	
8	066	060	058	062	063	036	050	
9			068	055	048	050	068	088
10	057	085	085	078	073	072	084	085
11	092	100	095	090	060	070	070	090
12	085	080	085	094	085	084	087	097
13	097	097	094	084	090	092	097	097
14	096	084	092	096	082	090	095	086
15	090	090	094	093	090	092	097	100
16	100	100	085	088	082	072	078	087
17	081	082	080	080	080	084	084	090
18	094	088	070	090	094	085	087	088
19	098		100	100	100	100	100	100
20	100	098	085	072	072	084	072	073
21	073	068	069	069	068	076		
22	000	000				84	075	075
23	078	088	083	083	092	080	088	090
24	100	090	070	067	065	070	075	087
25	085	084	060	062	090	084	080	100
26	074	100						
27								
28								
29								
30								
31								
	86	87	81	80	78	78	32	89

SHELTER AIR TEMPERATURE (DEGREES F.)  
KASKAWULSH KNOLL STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 61 02' N  
LONG 138 25' W

ELEVATION 6000

DATE JULY, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	.	.	.	42.0	45.0	40.5	37.0	33.0		45.0	
2	34.0	38.0	40.5	42.5	40.0	38.5	38.0	37.0	38.6	54.0	32.0
3	38.0	.	40.0	42.0	40.0	37.0	32.0	30.5	37.5	42.0	30.0
4	31.0	32.0	35.5	35.0	33.8	34.0	32.3	31.0	33.1	36.0	30.0
5	29.0	32.0	36.0	39.2	39.8	36.3	34.0	36.0	35.3	41.0	29.0
6	36.5	36.0	38.0	45.0	47.5	45.0	43.0	42.0	41.6	50.0	36.0
7	40.0	46.0	50.0	54.0	57.0	51.0	47.0	44.5	48.7	57.0	40.0
8	42.5	48.0	56.5	60.0	60.0	56.0	50.0	46.0	52.4	61.0	42.0
9	45.0	52.0	55.0	62.0	60.0	55.5	47.5	48.5	53.2	62.0	45.0
10	45.0	46.0	50.0	57.0	58.0	52.0	49.0	48.5	50.7	60.0	44.0
11	44.0	46.0	51.0	58.0	55.0	50.5	44.0	44.0	49.1	59.0	42.0
12	42.0	49.0	52.0	55.0	53.0	49.5	45.0	44.0	48.8	55.0	42.0
13	42.0	49.0	45.0	54.0	50.5	49.0	46.0	43.5	47.9	56.0	41.0
14	40.5	45.0	46.0	49.0	49.0	43.5	40.0	38.5	43.9	51.0	48.0
15	37.0	40.0	44.0	48.0	49.0	41.0	36.5	38.0	41.7	50.0	36.0
16	37.0	42.0	47.0	50.0	50.0	48.5	40.0	.	44.8	53.0	37.0
17	40.5	44.0	49.0	52.0	48.0	46.0	39.0	36.0	44.3	54.0	36.0
18	36.0	40.5	43.0	49.5	46.0	42.0	37.5	34.3	41.1	49.0	34.0
19	34.0	39.0	37.0	37.5	43.0	39.0	40.0	40.0	38.7	44.0	34.0
20	38.5	42.0	46.0	46.5	45.0	43.0	41.5	40.0	43.1	52.0	38.0
21	38.5	40.5	40.0	43.0	40.0	39.5	37.5	36.0	39.4	43.0	36.0
22	32.0	38.0	44.5	50.5	45.0	38.0	36.0	34.0	39.9	50.0	32.0
23	32.0	36.0	36.0	36.0	41.0	38.0	36.0	32.0	35.9	43.0	32.0
24	31.5	32.0	34.0	34.0	35.0	34.0	33.5	28.5	32.8	36.0	28.0
25	29.0	34.0	36.0	41.5	38.0	38.0	37.0	35.0	36.1	41.0	28.0
26	36.0	32.0	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	.	.	.	.	.	.	.	.			
29	.	.	.	.	.	.	.	.			
30	.	.	.	.	.	.	.	.			
31	.	.	.	.	.	.	.	.			

37.3 40.8 44.1 47.3 46.7 43.4 40.1 38.4

TABLE IV-K

103

RELATIVE HUMIDITY (PERCENTAGE)  
KASKAWULSH KNOLL STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 43' N ELEVATION 6000 DATE JULY, 1965  
LONG 139 08' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1		070		066	048	053	061	073	
2	073	063	055	052	056	064	066	072	62.6
3	080	060	065	060	060	058	064	074	65.1
4	066	065	062	061	056	064	071	082	67.1
5	097	094	084	090	086	097	097	097	92.8
6	097	097	096	062	058	067	066	065	76.0
7	066	054	045	035	028	025	029	032	39.3
8	034	030	024	017	008	011	018	024	20.8
9	027	028	026	014	015	018	028	034	23.8
10	051	060	048	044	036	044	052	060	49.4
11	066	064	052	044	042	050	060	062	55.0
12	062	054		050	050	059	070	092	63.9
13	097	076	067	052	064	066	072	082	72.0
14	097	075	070	057	051	061	070	074	69.4
15	082	076	062	055	050	065	090	094	71.8
16	097	085	070	058	049	048	072		67.1
17	066	060	046	034	038	040	070	084	54.8
18	084	074	065	054	055	065	077	092	70.0
19	097	082	097	097	082	097	097	097	93.3
20	097	067	060	056	056	062	061	056	64.4
21	060	074	054	046	052	054	054	058	56.5
22	065	058	040	031	040	058	060	063	51.9
23	078	066	085	097	046	056	094	097	77.4
24	088	067	063	052	055	058	057	077	64.6
25	080	066	060	060	067	066	066	084	68.6
26	075	097							
27									
28									
29									
30									
31									
	75	68	61	54	51	56	65	72	

TABLE V-A

SHELTER AIR TEMPERATURE (DEGREES F.)  
SEWARD STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 61 02' N  
LONG 138 25' W

ELEVATION 6150

DATE JULY, 1965

## YUKON STANDARD TIME

DATE	03	06	09	12	15	18	21	24	MEAN	MAX	MIN
1	.	.	.	.	.	.	.	.			
2	.	.	.	.	.	.	.	.			
3	.	.	.	.	.	.	.	.			
4	.	.	.	.	.	.	.	.			
5	.	.	.	.	.	.	.	.			
6	.	.	.	.	.	.	.	.			
7	.	.	.	.	.	.	.	.			
8	.	.	.	.	.	.	.	.			
9	42.5	44.6	52.5	57.5	49.8	50.0	46.0	47.7	48.8	60.0	42.0
10	43.8	50.0	52.1	50.0	54.6	45.3	48.0	45.5	48.8	56.0	43.0
11	46.5	48.4	48.0	50.5	50.5	47.5	43.4	43.0	47.2	51.0	43.0
12	40.5	42.2	45.3	44.0	40.3	40.0	39.5	37.0	41.2	47.0	36.0
13	39.9	40.0	39.2	44.0	45.5	42.2	40.0	40.0	41.3	47.0	35.0
14	37.0	36.2	35.0	36.2	36.2	35.0	33.0	33.0	35.2	37.0	33.0
15	31.5	31.0	35.0	35.5	40.0	33.0	33.0	31.5	33.8	41.0	30.0
16	30.0	27.5	39.2	40.5	42.4	42.5	36.5	34.5	36.6	47.0	26.0
17	32.0	34.0	37.1	42.0	41.8	36.5	26.2	29.4	34.9	43.0	26.0
18	27.3	29.0	31.7	34.5	33.5	30.4	30.0	31.0	30.9	36.0	26.0
19	30.5	31.0	38.0	39.5	41.0	35.5	35.0	35.5	35.8	42.0	30.0
20	36.8	35.5	39.7	42.0	37.5	36.4	30.5	30.5	36.1	42.0	30.0
21	31.0	30.9	32.0	32.5	36.0	32.0	31.0	29.8	31.9	38.0	29.0
22	30.0	29.0	32.5	38.1	35.2	31.8	30.8	30.2	32.3	40.0	29.0
23	29.0	29.9	32.5	35.1	31.0	30.8	30.9	31.0	31.3	36.0	27.0
24	29.9	30.1	30.5	31.0	31.1	31.0	25.2	25.0	29.2	36.0	24.0
25	25.1	31.0	35.5	35.5	37.0	37.0	36.8	32.0			
26	.	.	.	.	.	.	.	.			
27	.	.	.	.	.	.	.	.			
28	.	.	.	.	.	.	.	.			
29	.	.	.	.	.	.	.	.			
30	.	.	.	.	.	.	.	.			
31	.	.	.	.	.	.	.	.			
	34.0	35.3	38.7	40.5	40.2	37.5	35.1	34.5	37.0	47.1	29.9

TABLE V-B

105

PRESSURE (800+ MB.)  
SEWARD STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 20' N  
LONG 139 55' W

ELEVATION 6150

DATE JULY, 1965

DATE	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9	778	775	757	773	---	774	774	768	
10	766	770	768	773	764	766	767	767	767.6
11	764	764	773	767	764	766	777	755	766.3
12	764	764	762	764	766	768	764	730	760.2
13	762	762	760	758	760	747	743	680	746.5
14	730	730	730	746	745	735	725	725	733.0
15	726	727	730	747	757	760	762	764	746.6
16	764	770	764	764	764	761	765	764	764.5
17	763	751	748	752	752	740	736	730	746.5
18	713	708	705	700	701	705	695	690	702.1
19	685	678	677	681	691	693	701	705	688.9
20	705	708	713	718	715	707	704	702	709.0
21	704	705	701	705	710	725	736	744	716.3
22	735	770	770	769	769	773	773	773	766.5
23	772	772	764	758	758	754	738	736	756.5
24	733	736	737	744	747	738	734	720	736.1
25	716	710	696	695	686	673	665	673	689.2
26									
27									
28									
29									
30									
31									
	739	741	739	742	741	740	737	731	740.0

PRECIPITATION  
SEWARD STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat. : 60° 20' N  
Long.: 139° 55' W

Elevation: c. 6,100 feet

Date: July, 1965

YST	03			06			09			12			15		
Date	Rain			Rain			Rain			Rain			Rain		
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12							T	T		T	T		T	0.5	
13				T	0.8		T	0.5					T	T	
14	T	0.5		T	0.5		T	T		T	T		T	T	
15	T	T		T	T								T	T	
16															
17															
18															
19															
20			T			T			T			T			
21			0.1			0.1			T			T			T
22															
23			T			T			T			T			0.1
24			0.4			T			T			T			T
25															
26			T												
27															
28															
29															
30															
31															
Sum	T	0.5	0.5	T	1.8	0.1	T	0.5	T	T	T	T	T	0.5	0.1
Summer Total	T	0.5	0.5	T	1.8	0.1	T	0.5	T	T	T	T	T	0.5	0.1

7 July-25 July

TABLE V-C

107

July, 1965  
(con't)

YST	18			21			24			Total		
Date	Rain	Snow		Rain	Snow		Rain	Snow		Rain	Snow	
	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.	in.	mm.	cm.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	T	0.5		T	0.2		T	0.5		T	1.7	
13	T	T		T	0.5					T	1.8	
14	T	T		T	T		T	T		T	1.0	
15	T	T								T	0.5	
16												
17												
18												
19	T	T		T	T		T	1.3		T	1.3	
20								0.1				0.1
21						T						0.2
22												
23			0.1									0.2
24			T									0.4
25												
26												T
27												
28												
29												
30												
31												
Sum	T	0.5	0.1	T	0.7	T	T	1.8	0.1	T	6.3	0.9
Summer Total	T	0.5	0.1	T	0.7	T	T	1.8	0.1	T	6.3	0.9

7 July-25 July





TABLE V-E

109

WIND VELOCITY (MPH), 200 CM.  
SEWARD STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT 60 45' N ELEVATION 6150 DATE JULY, 1965  
LONG 139 40' W

DATE	YUKON STANDARD TIME								MEAN
	03	06	09	12	15	18	21	24	
1									
2									
3									
4									
5									
6									
7									
8									
9	03	07	02	00	02	00	03	00	2.1
10	09	09	00	02	01	03	06	04	4.3
11	00	01	00	04	01	03	03	03	1.9
12	04	04	00	02	03	04	02	03	2.3
13	00	00	03	00	00	11	00	00	1.8
14	02	02	01	03	02	05	02	00	2.1
15	02	00	00	00			2	02	.8
16	03	05	03	00	00	02	02	00	1.9
17	02	02	00	00	00	04	01	03	1.5
18	00	04	01	02	02	01	00	00	1.3
19	00	02	02	00	00	02	03	00	1.1
20	01	01	04	01	04	02	04	02	2.4
21	01	05	02	10	06	05	01	05	4.4
22	03	02	01	02	03	02	02	02	2.1
23	02	00	00	10	15	08	02	05	5.3
24	07	05	02	02	02	01	05	00	3.0
25	02	00	01	02	03	06	20	22	7.0
26									
27									
28									
29									
30									
31									
	2.3	2.9	1.3	2.4	2.6	3.5	3.5	3.0	2.7

TABLE V-F

RELATIVE HUMIDITY (PERCENTAGE)  
SEWARD STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

LAT	60	43' N	ELEVATION	6150	DATE	JULY, 1965			
LONG	139	08' W							
DATE	YUKON STANDARD TIME								
	03	06	09	12	15	18	21	24	MEAN
1									
2									
3									
4									
5									
6									
7									
8									
9	055	080	069	036	060	055	074	047	59.5
10	079	083	077	080	042	074	074	077	73.3
11	---	069	048	072	062	075	086	086	71.1
12	085	082	083	097	096	100	096	095	90.5
13	100	100	100	097	100	083	096	100	97.0
14	092	100	092	100	100	100	100	100	98.0
15	100	100	092	100	082	100	090	095	94.9
16	095	095	081	064	086	086	092	092	86.4
17	090	091	084	068	089	096	100	095	89.1
18	100	100	100	083	082	092	095	095	93.4
19	100	095	081	070	082	096	100	092	89.5
20	087	092	095	086	096	092	100	100	93.6
21	100	095	100	100	096	100	100	095	98.3
22	100	100	083	088	084	083	095	095	91.0
23	100	100	100	100	100	100	100	100	100.0
24	100	100	100	100	090	090	090	100	96.5
25	---	083	084	084	083	---	---	100	
26									
27									
28									
29									
30									
31									
	92	92	86	83	84	88	93	92	88.8

TABLE V-G

111

CLOUDINESS (TENTHS OF SKY DOME)  
SEWARD STATION, ST. ELIAS MOUNTAINS  
YUKON TERRITORY, CANADA

Lat.: 60° 20' N

Long.: 139° 55' W

Elevation: c. 6,100 feet

Date: July, 1965

Date	Yukon Standard Time								Mean	Max.	Min.
	03	06	09	12	15	18	21	24			
1											
2											
3											
4											
5											
6											
7											
8											
9	3	1	1	1	1	4	3	9	2.9		
10	8	3	2	10	5	8	5	8	6.1		
11	7	9	9	9	8	8	8	8	8.2		
12	7	10	10	10	10	fog	10	10	9.6		
13	10	10	9	9	5	5	10	10	8.5		
14	10	10	10	10	10	10	10	10	10.0		
15	10	10	10	10	10	10	9	10	9.9		
16	10	1	1	1	2	1	1	1	2.3		
17	2	2	7	10	7	9	5	9	6.4		
18	10	fog	fog	10	10	10	10	10	10.0		
19	6	7	7	9	10	10	10	9	8.5		
20	10	10	9	10	10	10	10	10	10.0		
21	fog	fog	10	10	10	fog	8	10	9.8		
22	10	10	10	10	10	10	10	10	10.0		
23	fog	fog	fog	fog	fog	fog	fog	fog	10.0		
24	fog	fog	10	10	10	10	10	10	10.0		
25	6	6	8	5	5	6	4	10	6.3		
26											
27											
28											
29											
30											
31											
Mean	8.2	7.6	7.8	8.5	7.8	8.3	7.3	8.5	8.0		

Unclassified

Security Classification

DOCUMENT CONTROL DATA - R&D		
<small>Security classification of title, body of abstract and indexing annotation must be entered where applicable.</small>		
1. ORIGINATING ACTIVITY (Corporate authors)	2. REPORT SECURITY CLASSIFICATION	
Arctic Institute of North America Washington, D. C.	Unclassified	
3. REPORT TITLE		
ICEFIELD RANGES CLIMATOLOGY PROGRAM: 1965 DATA PRESENTATION AND PROGRAMMING ANALYSIS		
4. DESCRIPTIVE NOTES (Type of report and inclusive dates)		
5. AUTHOR S (Last name, first name, initial)		
Marcus, Melvin C., Rens, Frank, J. and Taylor, Bea E.		
6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
April 1966	111	8
8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER S,	
DA19-129-AMC-660(N)		
b. PROJECT NO.	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)	
1VC25C01A129	67-84-ES	
10. AVAILABILITY LIMITATION NOTICES		
<del>DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED</del> Release to CFSTI is authorized.		
11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY	
	U. S. Army Natick Laboratories, Natick, Massachusetts	
13. ABSTRACT		
<p>This report describes the 1965 climatology program of the Ice field Ranges Research Project, Arctic Institute of North America. A method whereby weather data were processed, programmed, and reproduced is also discussed. 1965 weather data are given for four summer field stations across the St. Elias mountains, Yukon. Records include temperature, precipitation, pressure, relative humidity, cloud cover, wind direction and speed.</p>		

DD FORM 1473

Unclassified

Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT

## INSTRUCTIONS

1. **ORIGINATING ACTIVITY:** Enter the name and address of the contractor, subcontractor, grantee, Department of Defense activity or other organization (*corporate author*) issuing the report.

2a. **REPORT SECURITY CLASSIFICATION:** Enter the overall security classification of the report. Indicate whether "Restricted Data" is included. Marking is to be in accordance with appropriate security regulations.

2b. **GROUP:** Automatic downgrading is specified in DoD Directive 5200.10 and Armed Forces Industrial Manual. Enter the group number. Also, when applicable, show that optional markings have been used for Group 3 and Group 4 as authorized.

3. **REPORT TITLE:** Enter the complete report title in all capital letters. Titles in all cases should be unclassified. If a meaningful title cannot be selected without classification, show title classification in all capitals in parenthesis immediately following the title.

4. **DESCRIPTIVE NOTES:** If appropriate, enter the type of report, e.g., interim, progress, summary, annual, or final. Give the inclusive dates when a specific reporting period is covered.

5. **AUTHOR(S):** Enter the name(s) of author(s) as shown on or in the report. Enter last name, first name, middle initial. If military, show rank and branch of service. The name of the principal author is an absolute minimum requirement.

6. **REPORT DATE:** Enter the date of the report as day, month, year; or month, year. If more than one date appears on the report, use date of publication.

7a. **TOTAL NUMBER OF PAGES:** The total page count should follow normal pagination procedures, i.e., enter the number of pages containing information.

7b. **NUMBER OF REFERENCES:** Enter the total number of references cited in the report.

8a. **CONTRACT OR GRANT NUMBER:** If appropriate, enter the applicable number of the contract or grant under which the report was written.

8b, 8c, & 8d. **PROJECT NUMBER:** Enter the appropriate military department identification, such as project number, subproject number, system numbers, task number, etc.

9a. **ORIGINATOR'S REPORT NUMBER(S):** Enter the official report number by which the document will be identified and controlled by the originating activity. This number must be unique to this report.

9b. **OTHER REPORT NUMBER(S):** If the report has been assigned any other report numbers (*either by the originator or by the sponsor*), also enter this number(s).

10. **AVAILABILITY/LIMITATION NOTICES:** Enter any limitations on further dissemination of the report, other than those imposed by security classification, using standard statements such as:

- (1) "Qualified requesters may obtain copies of this report from DDC."
- (2) "Foreign announcement and dissemination of this report by DDC is not authorized."
- (3) "U. S. Government agencies may obtain copies of this report directly from DDC. Other qualified DDC users shall request through \_\_\_\_\_."
- (4) "U. S. military agencies may obtain copies of this report directly from DDC. Other qualified users shall request through \_\_\_\_\_."
- (5) "All distribution of this report is controlled. Qualified DDC users shall request through \_\_\_\_\_."

If the report has been furnished to the Office of Technical Services, Department of Commerce, for sale to the public, indicate this fact and enter the price, if known.

11. **SUPPLEMENTARY NOTES:** Use for additional explanatory notes.

12. **SPONSORING MILITARY ACTIVITY:** Enter the name of the departmental project office or laboratory sponsoring (paying for) the research and development. Include address.

13. **ABSTRACT:** Enter an abstract giving a brief and factual summary of the document indicative of the report, even though it may also appear elsewhere in the body of the technical report. If additional space is required, a continuation sheet shall be attached.

It is highly desirable that the abstract of classified reports be unclassified. Each paragraph of the abstract shall end with an indication of the military security classification of the information in the paragraph, represented as (TS), (S), (C), or (U).

There is no limitation on the length of the abstract. However, the suggested length is from 150 to 225 words.

14. **KEY WORDS:** Key words are technically meaningful terms or short phrases that characterize a report and may be used as index entries for cataloging the report. Key words must be selected so that no security classification is required. Identifiers, such as equipment model designation, trade name, military project code name, geographic location, may be used as key words but will be followed by an indication of technical context. The assignment of links, rules, and weights is optional.